



U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**

400 Seventh Street, S.W.  
Washington, D.C. 20590

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

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AUTO SAFETY HOTLINE  
(800) 424-9393  
Wash. D.C. Area 366-0123

Case Vehicle (A): 1999 Chevrolet  
Type: Venture 4 x 2, 4-door APV  
Driver: 18-year-old male  
CDC: 12-FREE-5, 09-LZAW-4

## **SITUATION**

(Slide 1) It was nighttime, there were no streetlights, and (slide 2) the 2-lane asphalt road surface was dry and free of defects. Case vehicle (A) was traveling west at a driver-estimated speed of 89 kph (55 mph) in the westbound lane. Vehicle (X) was traveling east at an unknown speed in the eastbound lane. (Slide 3) When vehicle (X) crossed the centerline and came into the westbound lane, the driver of case vehicle (A) veered to the right to avoid a collision. (Slide 4) Case vehicle (A) exited the north edge of the road surface, traveled 79.5 meters, (slide 5) went over a driveway culvert and (slides 6, 7, 8 and 9) lawn, and struck (slides 10, 11 and 12) a tree and tree root with its right front. (Slide 13) Case vehicle (A) rotated clockwise and struck another tree with its left side. The driver of case vehicle (A) sustained minor injuries and was checked out by emergency personnel at the scene. The right-front passenger was flown via helicopter to a regional level-1 trauma center and was hospitalized for five days.

## **GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES**

(Slide 14) Damage to case vehicle (A) was severe. The right front of the vehicle was severely crushed rearward from the first tree impact. (Slide 15) Direct damage from the frontal impact began at the right bumper corner and extended 28 cm to the left, resulting in 22-percent vehicle overlap. (Slide 16) The maximum crush was 59 cm to the right-front bumper corner. (Slide 17) Damage to the left side of case vehicle (A) was moderate. Direct damage began 73-cm forward of the left-rear bumper corner and extended 116-cm forward along the quarter panel. (Slide 18) The maximum crush from this side impact was 45 cm to the left roof siderail.

Using the WinSMASH accident-reconstruction program and (slides 19, 20, 21 and 22) a crush profile measured at the front of case vehicle (A), the following impact severity was calculated for the first tree impact:



Vehicle	Variable	Calculated Velocity Change - kph (mph)		
		Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	38 (24)	-37 (-23)	-7 (-4)

Using the WinSMASH accident-reconstruction program and (slides 23, 24 and 25) a crush profile measured on the left side of case vehicle (A), the following impact severity was calculated for the second tree impact:

Vehicle	Variable	Calculated Velocity Change - kph (mph)		
		Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	21 (13)	0 (0)	21 (13)

## **DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)**

### **Exterior**

In the front, (slide 26) the right portion of the bumper and the hood, and the right headlight assembly were crushed. (Slide 27) The grille and the left headlight assembly were damaged, and the right-front components were drawn rearward. The hood latch was damaged and jammed closed, but had been pried open by rescue or tow-yard personnel in order to disconnect the battery. (Slide 28) The left hood hinge was deformed, (slide 29) the right hood hinge was damaged, but not separated, (slide 30) the rear edge of the hood was elevated, and it contacted, but did not penetrate the damaged windshield. There was a small amount of bond separation of the windshield along the right A-pillar.

(Slides 31 and 32) On the right side, the upper B-pillar was cut in two places, (slides 33 and 34) the front door was deformed, and (slide 35) the right-rear door was removed by rescue personnel in order to extricate the right-front passenger. In addition, (slide 36) the right-front fender, the right upper and lower A- and B-pillars, the right-roof siderail, and the right-front and the right-rear doors were damaged. (Slide 37) The right-front wheel was torn off. The toepan/footwell seam was torn open from contact with the tree root. The front and rear doors were jammed closed. (Slide 38) The quarter panel was slightly deformed and the right-side wheelbase was reduced 24 cm.

On the left side, (slide 39) the front wheel, (slide 40) the front fender, the upper and lower A-, B- and (slide 41) C-pillars, the upper D-pillar, and (slide 42) both doors were damaged. Both left-side doors were jammed closed, and the glass from the left-rear door and the rearmost window were broken out. The left wheelbase was increased 6 cm.

There was no damage to the rear of the vehicle.

### **Interior**

This vehicle was equipped with (slide 43) steering-wheel and (slides 44 and 45) passenger frontal-impact airbags, and both deployed during the frontal impact. (Slides 46, 47, 48 and 49) There was no damage to the module flaps/covers of either the steering-wheel or (slides 50 and 51) the passenger airbag modules. (Slide 52) The passenger airbag module cover contacted the windshield and there were some small holes in the passenger airbag fabric from the broken windshield glass. This vehicle was equipped with driver and (slide 53) passenger side-impact airbags which were located in the outboard side of the seatback, but none of these airbags deployed. (Slide 54) There was no damage to the steering-wheel rim or (slide 55) spokes. There was no apparent vertical displacement of the steering column, but the steering column was deflected to the left. Also in the front, (slide 56) the upper, mid, and lower instrument panels, control knobs, (slide 57), windshield top molding, (slide 58) rearview mirror, upper vent outlets, heater/ac ducts, control knobs, (slide 59) radio, and (slide 60) glove compartment were damaged. The glove-box door was removed post-crash in order to access the event data recorder.

On the right side, (slide 61) the A-pillar, the headliner, the roof siderail, the B-pillar, the C-pillar, (slide 62) and the front door interior, armrest, hardware, and window glass were damaged. The right-front seat was rotated rearward and to the right, (slide 63) the seat cushion was damaged and (slide 64) the seat-track adjusters were jammed.

On the left side, the headliner, the roof structure, the roof siderail, the left C-pillar, and the rear door interior, armrest, and glass were damaged. The following intrusions were noted and measured:

Location	Component	Distance (cm)	Direction
Driver (slide 65)	knee bolster	27	to rear
Center front (slide 66)	instrument panel	44	to rear
Right front (slide 67)	A-pillar	77	to rear
(slide 68)	instrument panel	71	to rear
(slide 69)	instrument panel	33	to left
	A-pillar	19	to left
	windshield	19	to rear
(slide 70)	roof	3	down
Left second seat (slide 71)	left rear door	27	to right
Left third seat (slide 72)	roof siderail	30	to right
	C-pillar	30	to right

## OCCUPANT KINEMATICS AND INJURIES

(Slide 73) The 5-ft, 11-in, 160-lb, 18-year-old male driver was wearing the three-point belt, (slide 74) the pretensioner fired, and the frontal-impact airbag deployed during the frontal impact. (Slide 75) There were witness marks on the plastic D-ring and (slide 76) continuous loop, and (slide 77) plastic transferred onto the belt webbing, indicating belt use during the crash sequence. The driver reportedly had his seat in a rearward track position, with the seatback slightly reclined. He reportedly had his left hand at the twelve o'clock position on the steering-wheel rim and his right arm on the seat armrest. During the first impact, the driver moved forward and slightly to the right relative to the vehicle interior. He sustained contusions to his left and right knees due to contact with the plastic knee bolster cover, (slides 78 and 79) as evidenced by scuff marks.

During the second impact, the driver moved to his left relative to the vehicle interior, the outboard seatback-mounted side-impact airbag did not deploy. The driver reported no other injuries and did not seek medical attention.

(Slide 80) The 5-ft, 5-in, 164-lb, 17-year-old female right-front passenger, was not using the three-point belt, (slide 81) but the pretensioner fired and (slide 82) the frontal-impact airbag deployed. (Slide 83) The belt was cut by rescue personnel, (slide 84) the plastic D-ring had wear marks on the outer edges, but there were no webbing imprints across the span of the D-ring. She reportedly had her seat fully reclined and was sleeping at the time of the crash with her right leg crossed so that her right foot was under her left knee. Her torso was reportedly turned so that

she was laying more on her right side than on her back. Due to this pre-impact seating posture, and the long off-road travel prior to impact, the actual posture of the right-front occupant at the time of the crash is not known.

During the first impact, the right-front passenger moved forward in a reclined posture and into the glove box and airbag. As the vehicle rotated clockwise around the tree, she probably made significant contact with the right-front door interior.

She sustained abrasions to her right flank and back, possibly due to contact with the seatback or seat cushion. She sustained a contusion to her right eyelid, and an abrasion to her left cheek, possibly due to contact by the deploying airbag. She sustained a right lung contusion, possibly due to contact with the right-front door interior. She sustained thoracic spine fractures to the spinous processes of T7, T8 and T9, and a lumbar spine fracture to the right transverse process of L2, probably due to torso twisting and flexion. She sustained a contusion to her left elbow, probably due to contact with the glove box. She sustained a minor compression fracture to her lumbar spine at L5, a severely comminuted fracture to the mid-shaft of her right femur, and a fracture to the anterior-medial aspect of her right acetabulum, probably due to a combination of knee contact with the knee bolster/glove box and hip contact with the door interior. She sustained abrasions and lacerations to her right and left legs, possibly due to contact with the instrument panel /glove box. She sustained a fracture to the rim of the right distal tibia, possibly due to contact with her left leg. She sustained abrasions to her right thigh and right knee, possibly due to contact with the seat cushion. She sustained an abrasion to her right anterior forearm, abrasions to the dorsal aspect of her left and right hands due to unknown sources.

The following tables and attached drawings (slides 85 and 86) summarize the injuries sustained by the two occupants of case vehicle (A).

Occupant: Driver  
Restraints: 3-point belt worn, pretensioner fired;  
frontal-impact airbag deployed,  
side-impact airbag did not deploy

Age: 18 years  
Stature: 180 cm (5 ft, 11 in)

Gender: Male  
Mass: 73 kg (160 lb)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
Contusion, right knee	1	Knee bolster		
Contusion, left knee	1	Knee bolster		
<u>Maximum A.I.S. Level</u>	<u>1</u>			
<u>Injury Severity Score</u>	<u>1</u>			

Occupant: Right front  
 Restraints: 3-point belt not worn, pretensioner fired;  
 frontal-impact airbag deployed,  
 side-impact airbag did not deploy

Age: 17 years  
 Stature: 165 cm (5 ft, 5 in)

Gender: Female  
 Mass: 74 kg (164 lb)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
Contusion, right eyelid	1			Airbag
Abrasion, left cheek	1			Airbag
Right pulmonary contusion	3			Door
Fractures, spinous processes of T7, T8 and T9	2		Impact force (twisting and flexion)	
Fracture, right transverse process of L2	2		Impact force (twisting and flexion)	
Abrasion, right flank and back	1			Seat back, seat cushion
Contusion, left elbow	1		Glove box	
Abrasion, right anterior forearm	1			Unknown
Abrasion, dorsal aspect of right hand	1			Unknown
Abrasion, dorsal aspect of left hand	1			Unknown
Minor compression fracture, L5	2		Knee bolster/ glove box	
Fracture, right anterior-medial acetabulum	2		Knee bolster / glove box and door interior	
Fracture, mid-shaft right femur severely comminuted	3		Knee bolster / glove box	

(Right-front passenger injury table continued on next page)

Occupant: Right front (continued)  
 Restraints: 3-point belt not worn, pretensioner fired;  
 frontal-impact airbag deployed,  
 side-impact airbag did not deploy

Age: 17 years  
 Stature: 165 cm (5 ft, 5 in)

Gender: Female  
 Mass: 74 kg (164 lb)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
Abrasions, and lacerations, right leg	1			Knee bolster / glove box
Fracture, rim of right distal tibia	2			Right-front occupant's left leg
Abrasions, and lacerations, left leg	1			Knee bolster / glove box
Abrasions, right thigh and knee	1			Seat cushion
<u>Maximum A.I.S. Level</u>	<u>3</u>			
<u>Injury Severity Score</u>	<u>22</u>			

Duplicate columns 1-8  
from the previous card.

Module G 1 Format 0 2  
9 10 11 12

# GENERAL INFORMATION GI-1

## TIME

DATE OF COLLISION

      /       /              
m m d d y y y y

HOUR OF COLLISION

(24 HOUR CLOCK)

             
21 24

## ENVIRONMENTAL CONDITIONS

CONSTRUCTION ZONE

- (0) NO  
(1) YES  
(9) UNKNOWN

0  
33

ROAD ALIGNMENT  
VERTICAL PLANE

- (1) LEVEL  
(2) CREST OF HILL  
(3) SLOPE (2%)  
(4) BOTTOM OF HILL  
(9) UNKNOWN

1  
34

ROAD ALIGNMENT  
HORIZONTAL PLANE

- (1) STRAIGHT  
(2) CURVE  
(3) T - SHAPED  
(4) Y - SHAPED  
(7) OTHER: \_\_\_\_\_  
(9) UNKNOWN

1  
35

SURFACE COVERING

- (10) DRY  
  
(21) WATER - DAMP  
(22) WATER - WET  
(23) WATER - PUDDLED  
(29) WATER - AMOUNT UNKNOWN  
  
(31) SNOW - LOOSE  
(32) SNOW - PACKED  
(39) SNOW - CONDITION UNKNOWN  
  
(41) ICE  
(51) SLUSH  
(61) SPILLED GRAVEL  
(71) OTHER: \_\_\_\_\_  
(99) UNKNOWN

1 0  
36 37

VISIBILITY LIMITATION  
(FOR CASE VEHICLE)

- (0) NONE  
(1) CLOUDY/DARK  
(2) FOG  
(3) SMOKE  
(4) WINDSHIELD CONDITION  
(5) GLARE  
(6) RAIN  
(7) OTHER: \_\_\_\_\_  
(8) ICE/SNOW  
(9) UNKNOWN

0  
38

VISIBILITY OBSTRUCTION  
(FOR CASE VEHICLE)

- (0) NONE  
(1) BUILDING  
(2) SIGN  
(3) VEGETATION (E.G. BUSHES, SHRUBS)  
(4) TREE  
(5) HILL OR CURVE IN ROAD  
(6) VEHICLE IN TRANSPORT  
(7) OTHER: \_\_\_\_\_  
(8) PARKED VEHICLE  
(9) UNKNOWN

0  
39

## LOCATION

STATE: \_\_\_\_\_

STATE FIPS CODE

       
25 26

AREA

- (1) URBAN  
(2) RURAL  
(9) UNKNOWN

2  
27

## ENVIRONMENTAL CONDITIONS

LIMITED-ACCESS HIGHWAY

- (0) NO  
(1) YES  
(9) UNKNOWN

0  
28

ROAD, TOTAL TRAFFIC LANES  
(FOR CASE VEHICLE)

- (1) 1-LANE  
(2) 2-LANES  
(3) 3-LANES  
(4) 4 OR MORE LANES  
(5) DIVIDED, 4 OR MORE LANES  
(6) PARKING LOT/DRIVEWAY  
(7) OTHER: \_\_\_\_\_  
(9) UNKNOWN

2  
29

INTERSECTING RD, TOTAL LANES  
CHOOSE FROM ABOVE LIST, OR

- (8) NOT APPLICABLE

6  
30

TYPE OF ROAD SURFACE

- (1) ASPHALT  
(2) CONCRETE  
(3) GRAVEL  
(4) MORE THAN ONE (CIRCLE EACH)  
(7) OTHER: \_\_\_\_\_  
(9) UNKNOWN

1  
31

ROAD DEFECTS

- (0) NO  
(1) YES  
(9) UNKNOWN

0  
32



## ENVIRONMENTAL CONDITIONS

**SPEED LIMIT**

- |     |                 |          |
|-----|-----------------|----------|
| (0) | 5-45 km/h ..... | 5-25 mph |
| (1) | 46-55 .....     | 30       |
| (2) | 56-60 .....     | 35       |
| (3) | 61-70 .....     | 40       |
| (4) | 71-79 .....     | 45       |
| (5) | 80-85 .....     | 50       |
| (6) | 86-90 .....     | 55 ✓     |
| (7) | 91-105 .....    | 60       |
| (8) | OVER 105 .....  | 65       |
| (9) | UNKNOWN         |          |

## PRECIPITATION

- (0) NONE  
(1) RAIN  
(2) SNOW  
(3) HAIL  
(4) FREEZING RAIN/SLEET  
(7) OTHER: \_\_\_\_\_  
(9) UNKNOWN

## RATE OF PRECIPITATION

- (1) LIGHT/MIST  
(2) MODERATE  
(3) HEAVY  
(8) NOT APPLICABLE  
(9) UNKNOWN

## • TEMPERATURE

- (0) BELOW -15° C ..... BELOW 5° F  
(1) -15 TO -6 ..... 5 TO 22  
(2) -5 TO -1 ..... 23 TO 31  
(3) 0 TO 2 ..... 32 TO 36  
(4) 3 TO 5 ..... 37 TO 41  
(5) 6 TO 15 ..... 42 TO 59  
(6) 16 TO 25 ..... 60 TO 77  
(7) 26 TO 35 ..... 78 TO 95  
(8) OVER 35 ..... OVER 96  
(9) UNKNOWN

## CROSSWIND

- (0) NONE  
(1) LIGHT  
(2) STRONG  
(3) GUSTY & STRONG  
(9) UNKNOWN

## LIGHT CONDITIONS

- (1) DAYLIGHT
- (2) DAWN
- (3) DUSK
- (4) DARK, LIGHTED
- (5) DARK, UNLIGHTED
- (6) DARK, UNKNOWN IF LIGHTED
- (9) UNKNOWN

## MECHANICAL MALFUNCTION

WAS THERE MENTION  
OF A MECHANICAL MALFUNCTION  
IN CASE VEHICLE

- (0) NO  
(1) YES  
(2) YES, DID NOT CONTRIBUTE  
TO ACCIDENT  
(9) UNKNOWN

**THE FOLLOWING SECTION SHOULD BE FILLED  
OUT IF A MECHANICAL MALFUNCTION IS  
RECOGNIZED OR SUSPECTED.**

**CIRCLE ITEMS INVOLVED. SUPPORT ANY  
ITEMS CIRCLED WITH COMMENTS.**

## BRAKE SYSTEM DRIVER CONTROLS

## EXHAUST SYSTEM POWER TRAIN

## STEERING SYSTEM

SUSPENSION SYSTEM	VISIBILITY ITEMS
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ELECTRICAL SYSTEM      TIRES

THROTTLE CONTROLS      UNKNOWN

OTHER: \_\_\_\_\_

**COMMENTS:** \_\_\_\_\_

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1. *Journal of the American Medical Association*, 2000; 283: 2689-2693.

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# GENERAL INFORMATION GI-3

## CRASH DETAILS

### CASE VEHICLE AND OBJECT

- (0) NO
- (1) YES
- (9) UNKNOWN

1  
47

### CASE VEHICLE ROLLOVER

- (0) NO ROLLOVER
- (1) YES, FIRST EVENT
- (2) YES, SUBSEQUENT EVENT
- (3) YES, SEQUENCE UNKNOWN
- (9) UNKNOWN

0  
48

### CASE VEHICLE RAN OFF ROADWAY (BEFORE FIRST IMPACT)

- (0) NO
- (1) YES
- (9) UNKNOWN

1  
49

### MOVING CASE VEHICLE AND CONTACTED MOVING VEHICLE

- (0) NO
- (1) YES
- (9) UNKNOWN

0  
50

### CASE VEHICLE AND CONTACTED STOPPED VEHICLE

- (0) NO
- (1) YES
- (9) UNKNOWN

0  
51

### STOPPED CASE VEHICLE AND CONTACTED VEHICLE

- (0) NO
- (1) YES
- (9) UNKNOWN

0  
52

### TOTAL NUMBER OF VEHICLES CONTACTED BY CASE VEHICLE IN CRASH

- (8) 8 OR MORE
- (9) UNKNOWN

0  
53

### ANY FIRE IN THIS CRASH (NOT JUST CASE VEHICLE)

- (0) NO
- (1) YES
- (9) UNKNOWN

0  
54

### HIGHEST POLICE INJURY SEVERITY CODE IN CRASH (NOT JUST CASE VEHICLE)

- (0) O - NO INJURY
- (1) C - POSSIBLE INJURY
- (2) B - NON-INCAPACITATING INJURY
- (3) A - INCAPACITATING INJURY
- (4) K - FATAL
- (5) INJURED, SEVERITY UNKNOWN
- (6) DIED PRIOR TO ACCIDENT
- (7) NON-FATAL INJURY  
SEVERITY UNKNOWN
- (9) UNKNOWN

2  
55

### DRIVER IMPAIRMENT

#### DRIVER ALCOHOL INVOLVEMENT (CASE VEHICLE)

- (0) NONE
- (1) YES
- (9) UNKNOWN/NOT REPORTED/  
NO DRIVER

0  
56

#### DRIVER ALCOHOL BAC (CASE VEHICLE)

- (80) NO TEST
- (90) CHEMICAL TESTS, NO RESULTS
- (95) AUTOPSY, NO RESULTS
- (99) UNKNOWN

0 0  
57 58

#### WAS THERE MENTION OF DRIVER IMPAIRMENT FOR CASE VEHICLE?

- (0) NO
- (1) YES
- (9) UNKNOWN

0  
59

#### LIST IMPAIRMENTS MENTIONED:

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### POST - CRASH DETAIL

#### MANNER CASE VEHICLE LEFT SCENE

- (1) DRIVEN
- (2) TOWED DUE TO DAMAGE
- (3) TOWED, NOT DUE TO DAMAGE
- (4) TOWED, REASON UNKNOWN
- (9) UNKNOWN

2  
60

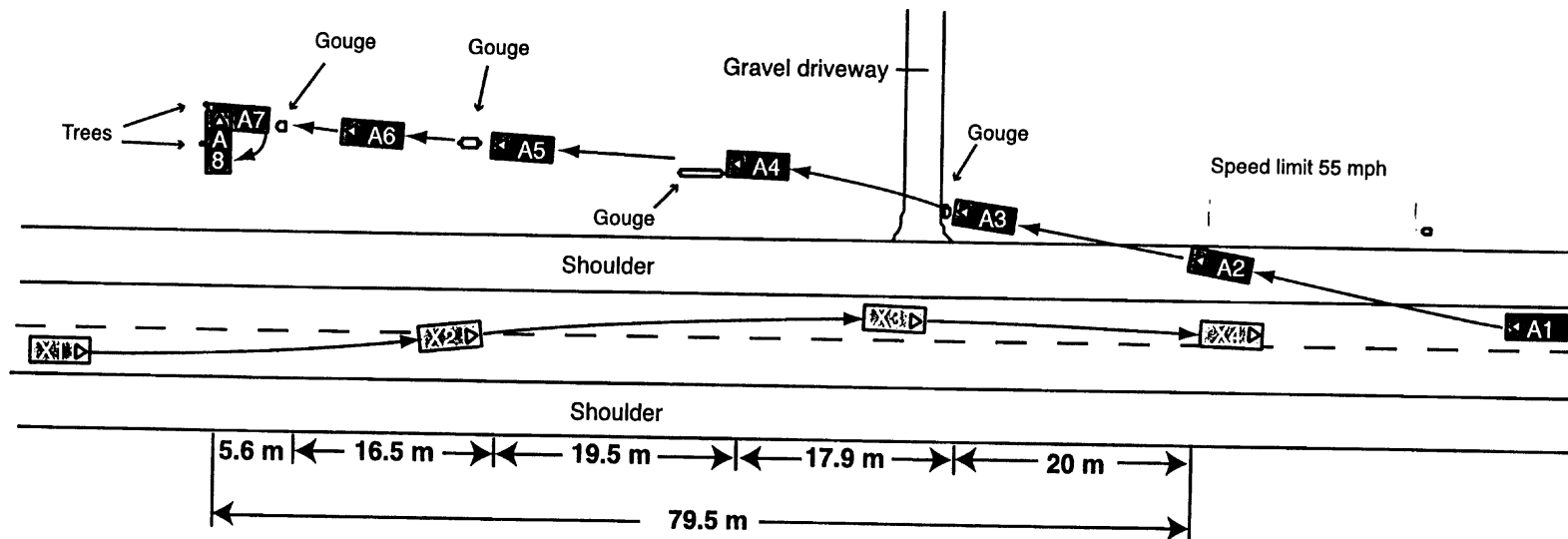
# ACCIDENT SCHEMATIC

ACCIDENT DESCRIPTION: Case vehicle (A) was traveling west when a unknown vehicle traveling east encroached into the westbound lane. Case vehicle (A) veered to the right exited the road surface, went across a lawn and struck a tree with its front right. Case vehicle (A) rotated clockwise and struck a second tree with its left side.

CASE VEHICLE (A): 1999 Chevrolet Venture  
 OTHER VEHICLE (B): \_\_\_\_\_  
 THIRD VEHICLE (C): \_\_\_\_\_



NORTH



Duplicate columns 1-8  
from the previous card.

Module O V Format 0 4  
9 10 11 12

OTHER VEHICLE OV-1

MAKE: \_\_\_\_\_  
MODEL: **NOT APPLICABLE**

CARGO: \_\_\_\_\_

VIN

13

29

MANUFAC/BODY CODE

30

34

MAKE/MODEL CODE

38

MODEL YEAR

39

42

VEHICLE MASS (kg)

43

48

IF SEPARATE REPORT WAS MADE,  
GIVE VEHICLE NUMBER

NUMBER OF OCCUPANTS  
(ENTER 9'S IF UNKNOWN)

51

TRAVELING SPEED (km/h)

54

- (000) PARKED OR STOPPED  
(995) JUST STARTING UP  
(996) BACKING UP  
(997) SPEED NOT EXCESSIVE (BUT UNKNOWN)  
(998) SPEED EXCESSIVE (BUT UNKNOWN)  
(999) UNKNOWN

HIGHEST POLICE INJURY SEVERITY  
CODE FOR THIS VEHICLE

- (0) O - NO INJURY  
(1) C - POSSIBLE INJURY  
(2) B - NON-INCAPACITATING INJURY  
(3) A - INCAPACITATING INJURY  
(4) K - FATAL  
(5) INJURED, SEVERITY UNKNOWN  
(6) DIED PRIOR TO ACCIDENT  
(7) NON-FATAL INJURY  
SEVERITY UNKNOWN  
(8) UNOCCUPIED VEHICLE  
(NOT APPLICABLE)  
(9) UNKNOWN

55

### VEHICLE TYPE

#### PASSENGER VEHICLE

- (02) LARGE  
(03) LIMOUSINE  
(17) PICKUP CAR  
(20) UNKNOWN PASSENGER VEHICLE BODY  
(24) SUB-MINI  
(25) MINI  
(26) SUB-COMPACT  
(27) COMPACT  
(28) INTERMEDIATE  
(29) FULL

56

57

#### MULTIPURPOSE PASSENGER VEHICLE

- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",  
E.G. JEEP, BRONCO)  
(15) LARGE UTILITY (WHEELBASE MORE THAN 107",  
E.G. PANEL TRUCK, SUBURBAN)  
(16) PICKUP TRUCK WITH CANOPY/SHELL COVER  
(17) PICKUP CAR WITH CANOPY/SHELL COVER  
(21) MOTOR HOME  
(22) PICKUP TRUCK WITH SLIDE-IN CAMPER  
(23) PICKUP CAR WITH SLIDE-IN CAMPER  
(31) CHASSIS-MOUNTED CAMPER

#### TRUCK

- (11) VAN  
(12) PICKUP TRUCK  
(13) UNKNOWN LIGHT TRUCK  
(15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)  
(16) PICKUP TRUCK WITH CANOPY/SHELL COVER  
(22) PICKUP TRUCK WITH SLIDE-IN CAMPER  
(30) UNKNOWN TRUCK TYPE  
(31) CHASSIS-MOUNTED CAMPER  
(33) DELIVERY VAN (WALK-IN)  
(34) STRAIGHT TRUCK  
(35) TRUCK-TRACTOR (BOBTAIL)  
(36) CHASSIS-CAB  
(37) UNKNOWN HEAVY TRUCK  
(38) TRACTOR & SEMI-TRAILER (SEMI)  
(39) TRUCK (OR SEMI) & FULL TRAILER(S)

#### BUS

- (40) UNKNOWN BUS TYPE  
(41) SCHOOL BUS  
(42) INTERCITY BUS (BETWEEN CITIES)  
(43) TRANSIT BUS (INTRACITY)  
(44) STREETCAR (ON TRACKS)

- (68) TRAIN (CARS)  
(69) LOCOMOTIVE (ENGINE, SWITCHER)

(99) UNKNOWN

WHEELBASE (cm)

(999) UNKNOWN

58 59 60

Duplicate columns 1-8  
from the previous card.

Module O V Format 0 2  
9 10 11 12

OTHER VEHICLE OV-2

ORIGINAL SPECIFICATIONS

Wheelbase	_____ cm	Front Overhang	_____ cm
			22 24
Curb Weight	_____ kg	Rear Overhang	_____ cm
			25 27
Average Track Width	_____ cm	Undeformed End Width (UEW)	_____ cm
	13 15		28 30
Overall Length	_____ cm	Engine Displacement	_____ L
	16 18		31 32
Overall Width (OAW)	_____ cm	Engine: # of Cylinders	_____
	19 21		33 34

VEHICLE DAMAGE

NOT APPLICABLE

FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more  
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL) \_\_\_\_\_ cm  
35 37

Front-End Overlap (Percent) =  $\frac{DDL}{UEW}$  \_\_\_\_\_ %  
38 39

Vehicle Overlap (Percent) =  $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$  \_\_\_\_\_ %  
40 41

Duplicate columns 1-8  
from the previous card.

Module V D Format 0 4  
9 10 11 12

VEHICLE DESCRIPTION VD-1

MAKE: Chevrolet  
MODEL: Venture 4x2, 4-door APV

CARGO: Misc. 20 lb.

VIN 1 G N D U 0 3 E 1 X D [REDACTED]

MANUFAC/BODY CODE 1 1 3 1 1  
30 34

MAKE/MODEL CODE 2 9 4 0  
38

MODEL YEAR 1 9 9 9  
39 42

VEHICLE MASS (kg) 0 0 1 6 9 9  
43 48

ODOMETER (km)  
(ENTER 9'S IF UNKNOWN) 0 5 0 3 6 6  
(ENTER 8'S IF ELECTRONIC) 49 54

NUMBER OF OCCUPANTS 0 2  
(ENTER 9'S IF UNKNOWN) 56

TRAVELING SPEED (km/h) 0 8 9  
59

(000) PARKED OR STOPPED  
(995) JUST STARTING UP  
(996) BACKING UP  
(997) SPEED NOT EXCESSIVE (BUT UNKNOWN)  
(998) SPEED EXCESSIVE (BUT UNKNOWN)  
(999) UNKNOWN

VEHICLE TYPE

PASSENGER VEHICLE

- (11) 2-DOOR HARDTOP (NO UPPER B-PILLAR)  
(12) 2-DOOR SEDAN OR COUPE  
(ANY UPPER B-PILLAR)  
(13) 4-DOOR HARDTOP  
(14) 4-DOOR SEDAN  
(15) STATION WAGON  
(16) CONVERTIBLE  
(18) OTHER PASS. VEH. :  
(19) PASSENGER VEHICLE, TYPE UNKNOWN

MULTIPURPOSE PASSENGER VEHICLE

- (21) SMALL UTILITY (E.G. JEEP, SCOUT, BRONCO)  
(22) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)  
(23) VAN, SIZE UNKNOWN  
(24) VAN, SMALL (MINI)  
(25) VAN, LARGE  
(29) MPV, TYPE UNKNOWN  
(30) MOTOR HOME

TRUCK

- (31) PICKUP TRUCK, UNKNOWN  
(32) PICKUP TRUCK, SMALL (DOWNSIZED)  
(33) PICKUP TRUCK, LARGE

(99) UNKNOWN

STOLEN VEHICLE

- (0) NO  
(1) YES  
(8) NOT COLLECTED  
(9) UNKNOWN

BODY STRUCTURE

- (1) BODY & FRAME  
(2) UNITIZED  
(3) INTEGRAL-STUB FRAME  
(4) BODY & PLATFORM FRAME  
(E.G. VW BUG)  
(5) PARTIALLY UNITIZED  
(7) OTHER:   
(9) UNKNOWN

TRANSMISSION

- (0) NONE  
(1) AUTOMATIC  
(2) MANUAL  
(9) UNKNOWN

LOCATION OF TRANSMISSION  
SELECTOR LEVER

- (1) FLOOR  
(2) CONSOLE  
(3) COLUMN  
(7) OTHER:   
(9) UNKNOWN

STEERING

- (1) POWER  
(2) MANUAL  
(9) UNKNOWN

BRAKES

- (1) POWER  
(2) MANUAL  
(9) UNKNOWN

TYPE OF BRAKES

- (1) DRUM, ALL WHEELS
- (2) DISC, FRONT WHEELS
- (3) DISC, ALL WHEELS
- (9) UNKNOWN

2  
68

WHEELBASE (cm)  
(999) Unknown

284  
76 77 78

BRAKE ANTI-LOCK DEVICE

- (0) NONE INSTALLED
- (1) TWO-WHEEL
- (2) FOUR-WHEEL
- (7) EQUIPPED, UNKNOWN WHEELS
- (9) UNKNOWN

2  
69

PLASTIC ANTI-LACERATIVE  
INNER LAYER GLASS EQUIPPED

- (0) NONE
- (1) WINDSHIELD
- (2) WINDSHIELD AND SIDE
- (7) OTHER
- (9) UNKNOWN

0  
79

AIR CONDITIONING IN VEHICLE

- (0) NO
- (1) YES
- (8) NOT COLLECTED
- (9) UNKNOWN

8  
70

TYPE OF DRIVE

- (1) REAR WHEEL
- (2) FRONT WHEEL
- (3) FOUR WHEEL
- (4) ALL WHEEL DRIVE
- (9) UNKNOWN

2  
71

FIELD INVESTIGATOR INSTRUCTIONS:

1. INDICATE CRUSHED AREAS BY OUT-LINING NEW PERIMETER OF VEHICLE AND SHADING THE DAMAGED AREAS ON THE LARGE SKETCH ON PAGE VD-3. USE AS MANY SKETCHES AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.
2. ENTER THE DIMENSIONS ON THE SKETCH(ES) MEASURED TO THE POINT OF MAXIMUM PENETRATION BY THE OBJECT(S) CONTACTED. USE THE EXAMPLES BELOW AS A GUIDE.
3. ENTER THE THREE DIMENSIONS TO THE CENTER OF THE WHEELS (WHEELBASE, FRONT AND REAR OVERHANGS) ON BOTH SIDES OF THE CAR.
4. ADD OTHER DIMENSIONS AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.

EXAMPLES:

DUAL REAR WHEELS

- (0) NO
- (1) YES
- (9) UNKNOWN

0  
72

ORIGINAL TYPE  
OF RESTRAINT SYSTEM

- (1) ACTIVE BELT
- (2) PASSIVE BELT
- (3) AIRBAG
- (4) KNEE BOLSTERS
- (7) OTHER: \_\_\_\_\_
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

3  
73

EQUIPPED WITH ROLL BAR

- (0) NO
- (1) YES
- (9) UNKNOWN

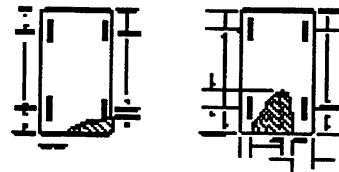
0  
74

TYPE OF ROOF

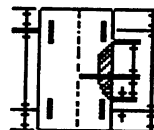
- (0) NONE
- (1) SOLID
- (2) T-TOP CLOSED
- (3) T-TOP OPEN
- (4) SUN ROOF CLOSED
- (5) SUN ROOF OPEN
- (6) CONVERTIBLE CLOSED
- (7) CONVERTIBLE OPEN
- (8) OTHER: \_\_\_\_\_
- (9) UNKNOWN

1  
75

FRONT OR REAR



SIDE



ROOF (REFERENCE TO  
TOP OF DOOR SILL  
OR WINDOW SILL)



Duplicate columns 1-8  
from the previous card.

Module V D Format 0 2  
9 10 11 12

## VEHICLE DESCRIPTION VD-3

### ORIGINAL SPECIFICATIONS

Wheelbase 284 cm

Front Overhang 094 cm  
22 24

Curb Weight 1699 kg

Rear Overhang 097 cm  
25 27

Average Track Width 159 cm  
13 15

Undeformed End Width (UEW) 160 cm  
28 30

Overall Length 475 cm  
16 18

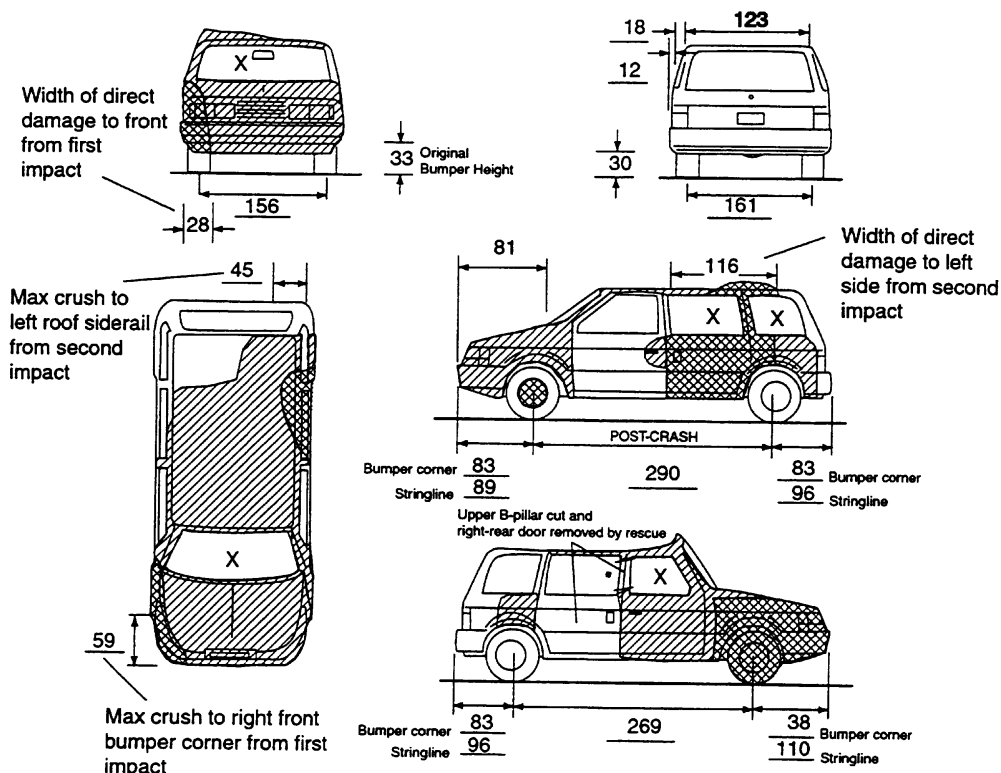
Engine Displacement 3.4 L  
31 32

Overall Width (OAW) 183 cm  
19 21

Engine: # of Cylinders 06  
33 34

### VEHICLE DAMAGE

MEASUREMENTS IN CENTIMETERS



### FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more  
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL) 028 cm  
35 37

Front-End Overlap (Percent) =  $\frac{DDL}{UEW}$  18 %  
38 39

Vehicle Overlap (Percent) =  $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$  22 %  
40 41



Duplicate columns 1-8  
from the previous card.

Module D A Format 0 2  
9 10 11 12

DAMAGE DA-1

PRIMARY	CASE VEHICLE PRIMARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
EVENT NUMBER	<u>1</u> 13	<i>Tree</i>
IMPACT SPEED (km/h)	<u>999</u> 14 15 16	<u>998</u> 35 36 37
ESTIMATED BY	<u>1</u> 17	<u>8</u> 38
CRUSH (cm)	<u>059</u> 18 19 20	<u>998</u> 39 40 41
CDC #1	<u>12.FREE.5</u> 21 27	<u>98.0000.0</u> 42 48
CDC #2	<u>98.0000.0</u> 28 34	<u>98.0000.0</u> 49 55

Duplicate columns 1-8  
from the previous card.

Module D A Format 0 3  
9 10 11 12

SECONDARY	CASE VEHICLE SECONDARY CDC	CONTACTED VEHICLE ASSOCIATED CDC
EVENT NUMBER	<u>2</u> 13	<i>Tree</i>
IMPACT SPEED (km/h)	<u>999</u> 14 15 16	<u>998</u> 35 36 37
ESTIMATED BY	<u>1</u> 17	<u>8</u> 38
CRUSH (cm)	<u>045</u> 18 19 20	<u>998</u> 39 40 41
CDC #1	<u>0.9.LZAW.4</u> 21 27	<u>98.0000.0</u> 42 48
CDC #2	<u>98.0000.0</u> 28 34	<u>98.0000.0</u> 49 55

## CODES

### EVENT NUMBER

(8) NOT APPLICABLE  
(9) UNKNOWN

### IMPACT SPEED

(998) NOT APPLICABLE  
(999) UNKNOWN

### IMPACT SPEED ESTIMATOR

(1) INVESTIGATOR  
(2) DRIVER  
(3) POLICE  
(4) "CRASH" PROGRAM  
(5) OTHER COMPUTER PROGRAM  
SPECIFY: \_\_\_\_\_  
(7) OTHER: \_\_\_\_\_  
(8) NOT APPLICABLE  
(NO VEHICLE/NO IMPACT)

### CRUSH

(998) NOT APPLICABLE  
(NO VEHICLE/DAMAGE)  
(999) UNKNOWN

### CDC

(9800000) NOT APPLICABLE  
(9900000) UNKNOWN

Duplicate columns 1-8  
from the previous card.

Module D 9 A 10 Format 0 1  
11 12

DAMAGE DA-2

### MAXIMUM SHEET METAL CRUSH

(cm) (999) UNKNOWN

FRONT 0 5 9  
13 15

RIGHT SIDE 0 0 0  
16 18

REAR 0 0 0  
19 21

LEFT SIDE 0 4 5  
22 24

ROOF 0 0 0  
25 27

OTHER 0 0 0  
28 30

### CHRONOLOGICAL SEQUENCE OF DAMAGE/INJURY PRODUCING CRASH EVENTS FOR CASE VEHICLE

NOTE: IF CHRONOLOGICAL ORDER  
IS UNKNOWN, EVENT  
ORDER IS OPTIONAL.

DO YOU KNOW THIS TABLE  
TO BE IN CHRONOLOGICAL ORDER?

1  
31

(0) NO  
(1) YES

#### EVENT NUMBER

#### IMPACT LOCATION

- (1) ON ROADWAY  
(2) SHOULDER/MEDIAN/GORE  
(3) ON ROADSIDE  
(4) OUTSIDE ROADSIDE  
RIGHT-OF-WAY  
(5) OTHER  
(6) OFF ROADWAY, LOC. UNK.  
(9) UNKNOWN

#### IMPACT CONFIGURATION

FOR CODES, SEE TABLE  
ON PAGE DA-3.

#### OBJECT/VEHICLE CONTACTED

FOR CODES, SEE TABLE  
ON PAGE DA-4.

# 1

4  
32

1 7  
34

7 7 face  
36

#2

4  
37

2 7  
39

7 7 face  
41

#3

—  
42

—  
44

—  
46

#4

—  
47

—  
49

—  
51

#5

—  
52

—  
54

—  
56

#6

—  
57

—  
59

—  
61

#7

—  
62

—  
64

—  
66

CODES FOR  
IMPACT CONFIGURATIONFRONT OF CASE VEHICLE

- (11) AND FRONT OF CONTACTED VEHICLE
- (13) AND SIDE OF CONTACTED VEHICLE
- (14) AND REAR OF CONTACTED VEHICLE
- (16) ENDSWIPED BY CONTACTED VEHICLE
- (17) AND OBJECT
- (19) AND UNKNOWN OTHER VEHICLE CONFIGURATION

LEFT SIDE OF CASE VEHICLE

- (21) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (22) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (23) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (24) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (25) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (26) SIDESWIPED BY CONTACTED VEHICLE
- (27) AND OBJECT
- (29) AND UNKNOWN OTHER VEHICLE CONFIGURATION

REAR OF CASE VEHICLE

- (31) AND FRONT OF CONTACTED VEHICLE
- (33) AND SIDE OF CONTACTED VEHICLE
- (34) AND REAR OF CONTACTED VEHICLE
- (36) ENDSWIPED BY CONTACTED VEHICLE
- (37) AND OBJECT
- (39) AND UNKNOWN OTHER VEHICLE CONFIGURATION

RIGHT SIDE OF CASE VEHICLE

- (41) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (42) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (43) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (44) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (45) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (46) SIDESWIPED BY CONTACTED VEHICLE
- (47) AND OBJECT
- (49) AND UNKNOWN OTHER VEHICLE CONFIGURATION

## OTHER

- (57) VEHICLE TO OBJECT
- (58) VEHICLE TO VEHICLE
- (59) VEHICLE TO VEHICLE, CONFIGURATION UNKNOWN

## ROLLOVER

- (61) LESS THAN 360°
- (62) 360° OR MORE
- (69) DETAILS UNKNOWN

## UNKNOWN

- (99) IMPACT TYPE UNKNOWN

CODES FOR VEHICLE/OBJECT CONTACTED

VEHICLE/OBJECT GROUPS

- (00) NO OBJECT
- (01) - (39) PASSENGER VEHICLE & TRUCK
- (40) - (69) OTHER VEHICLE
- (70) - (76) PEDESTRIAN & ON-ROADWAY OBJECT
- (77) - (97) OFF-ROADWAY OBJECT

- (98) OTHER (DESCRIBE)
- (99) UNKNOWN

PASSENGER VEHICLE

- (02) LARGE
- (03) LIMOUSINE
- (17) PICKUP
- (20) UNKNOWN PASSENGER VEHICLE BODY
- (24) SUB-MINI
- (25) MINI
- (26) SUB-COMPACT
- (27) COMPACT
- (28) INTERMEDIATE
- (29) FULL

SIZE

WHEELBASE

SUB-MINI	< 2286 mm (< 90")
MINI	2286 - 2412 mm (90" - 94.9")
SUB-COMPACT	2413 - 2539 mm (95" - 99.9")
COMPACT	2540 - 2666 mm (100" - 104.9")
INTERMEDIATE	2667 - 2793 mm (105" - 109.9")
FULL	2794 - 2920 mm (110" - 114.9")
LARGE	2921 - 3174 mm (115" - 124.9")
LIMOUSINE	> 3175 mm (> 125")

MULTIPURPOSE PASSENGER VEHICLE

- (11) SMALL VAN (MINI)
- (12) PICKUP
- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",  
E.G. JEEP, BRONCO)
- (15) LARGE UTILITY (WHEELBASE MORE THAN 107",  
E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (17) PICKUP CAR WITH CANOPY/SHELL COVER
- (21) MOTOR HOME
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (23) PICKUP CAR WITH SLIDE-IN CAMPER
- (31) CHASSIS-MOUNTED CAMPER

TRUCK

- (11) SMALL VAN (E.G. ECONOLINE)
- (12) PICKUP TRUCK
- (13) UNKNOWN LIGHT TRUCK
- (15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (30) UNKNOWN TRUCK TYPE
- (31) CHASSIS-MOUNTED CAMPER
- (33) DELIVERY VAN (WALK-IN)
- (34) STRAIGHT TRUCK
- (35) TRUCK-TRACTOR (BOBTAIL)
- (36) CHASSIS-CAB
- (37) UNKNOWN HEAVY TRUCK
- (38) TRACTOR & SEMI-TRAILER (SEMI)
- (39) TRUCK (OR SEMI) & FULL TRAILER(S)

BUS

- (40) UNKNOWN BUS TYPE
- (41) SCHOOL BUS
- (42) INTERCITY BUS (BETWEEN CITIES)
- (43) TRANSIT BUS (INTRACITY)
- (44) STREETCAR (ON TRACKS)

MOTORCYCLE

- (50) UNKNOWN MOTORCYCLE TYPE
- (51) 1 - 75 cc
- (52) 76 - 125 cc
- (53) 126 - 250 cc
- (54) 251 - 500 cc
- (55) 501 - 750 cc
- (56) 751 cc +
- (57) 3-WHEELS (OR WITH SIDECAR)

SPECIAL PURPOSE VEHICLE

- (60) UNKNOWN/OTHER SPECIAL VEHICLE (DESCRIBE)
- (61) SNOWMOBILE
- (62) ATV (ALL TERRAIN VEHICLE)
- (63) AMPHIBIOUS VEHICLE
- (64) FARM VEHICLE
- (65) CONSTRUCTION VEHICLE
- (66) TRAILER, PRIVATE (CAMPER)
- (67) TRAILER, COMMERCIAL (CARGO)
- (68) TRAIN (CARS)
- (69) LOCOMOTIVE (ENGINE, SWITCHER)

OBJECT

- (70) PEDESTRIAN
- (71) BICYCLIST, OTHER PEDALCYCLIST
- (72) PEDESTRIAN CONVEYANCE (E.G. PERSON RIDING  
ANIMAL, CART)
- (73) LARGE ANIMAL
- (74) FALLEN OBJECT (E.G. OBJECT DISLODGED FROM  
OTHER VEHICLE, FALLEN TREE, ROCKS)
- (75) ROCKS
- (76) CONSTRUCTION EQUIPMENT (EXCLUDING (65))
- (77) SIGN POST, UTILITY POLE, TREE
- (78) DITCH
- (79) EMBANKMENT, SNOWBANK, RR TRACKS RR X
- (80) GROUND (ROLLOVER ONLY)
- (81) CURB (DAMAGE PRODUCING IMPACTS ONLY)
- (82) CULVERT
- (83) FENCE
- (84) HYDRANT, SHORT POST, STUMP
- (85) SMALL POST/TREE, RURAL MAIL BOX, MILE  
MARKER, DELINEATOR
- (86) BUILDING
- (87) PIER, PILLAR, BRIDGE SUPPORT
- (88) ABUTMENT, RETAINING WALL
- (89) BRIDGE RAIL
- (90) GUARD RAIL, LEADING SECTION
- (91) GUARD RAIL, MIDDLE OR UNKNOWN
- (92) GUARD RAIL, TRAILING SECTION
- (93) GUARD POST (TIMBER, METAL, CONCRETE)
- (94) CABLE, FENCE BARRIER
- (95) CONCRETE BARRIER (MEDIAN)
- (96) IMPACT ATTENUATOR
- (97) BREAKAWAY FEATURES



Duplicate columns 1-8  
from the previous card.

Module C R Format 0 1  
9 10 11 12

# CRASH RECONSTRUCTION CR-1

for  $\Delta V$

	CASE VEHICLE PRIMARY IMPACT		CASE VEHICLE SECONDARY IMPACT	
	CASE VEHICLE	CONTACTED VEHICLE	CASE VEHICLE	CONTACTED VEHICLE
EVENT NUMBER	<u>1</u> 13	<u>tree</u>	<u>2</u> 47	<u>tree</u>
$\Delta V$ (km/h) TOTAL	<u>038</u> 14 15 16	<u>8</u> — — 32 33 34	<u>021</u> 48 49 50	<u>8</u> — — 66 67 68
LONGITUDINAL*	<u>- 037</u> 17 — — 20	<u>8</u> — — 35 — — 38	<u>+ 000</u> 51 — — 54	<u>8</u> — — 69 — — 72
LATERAL*	<u>- 007</u> 21 — — 24	<u>8</u> — — 39 — — 42	<u>+ 021</u> 55 — — 58	<u>8</u> — — 73 — — 76
*NOTE: THESE $\Delta V$ COMPONENTS MUST INCLUDE SIGN.				
EXAMPLES: 10 km/h = <u>+ 010</u> -7 km/h = <u>- 007</u>				
ENERGY DISSIPATED BY CRUSH (kj)	<u>0107</u> 25 — — 28	<u>8</u> — — 43 — — 46	<u>0046</u> 59 — — 62	<u>8</u> — — 77 — — 80
RECONSTRUCTION				
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL	<u>22</u> 29 30		<u>22</u> 63 64	
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL				
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL				
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL				
NOT RECONSTRUCTED BECAUSE				
(02) INSUFFICIENT DATA				
(03) EXCESSIVE UNDERRIDE/ OVERRIDE				
(04) ROLLOVER				
(05) VAULTING				
(06) OTHER TRAVEL IN MORE THAN ONE PLANE				
(07) NON-HORIZONTAL FORCE				
(08) SIDESWIPE-TYPE DAMAGE				
(09) YIELDING OBJECT				
(10) OTHER: _____				
(11) AT LEAST ONE VEHICLE BEYOND SCOPE				
(12) OTHER VEHICLE NOT INSPECTED				
MODE				
(1) CDC ONLY				
(2) CDC & DETAILED DAMAGE	<u>2</u> 31		<u>2</u> 65	
(3) TRAJECTORY & CDC				
(4) TRAJECTORY & CDC & DETAILED DAMAGE				
(5) NOT RECONSTRUCTED				
COMPUTER PROGRAM SPECIFY: <u>WINSMASH</u>				

Duplicate columns 1-8  
from the previous card.

Module C R Format 0 2  
9 10 11 12

# CRASH RECONSTRUCTION CR-2

for EBS

	CASE VEHICLE PRIMARY IMPACT		CASE VEHICLE SECONDARY IMPACT	
	CASE VEHICLE	CONTACTED VEHICLE	CASE VEHICLE	CONTACTED VEHICLE
EVENT NUMBER	<u>1</u> 13	<u>tree</u>	<u>2</u> 47	<u>tree</u>
EBS (km/h) TOTAL	<u>038</u> 14 15 16	<u>8—</u> 32 33 34	<u>021</u> 48 49 50	<u>8—</u> 66 67 68
LONGITUDINAL*	<u>-037</u> 17 20	<u>8—</u> 35 38	<u>+000</u> 51 54	<u>8—</u> 69 72
LATERAL*	<u>-007</u> 21 24	<u>8—</u> 39 42	<u>+021</u> 55 58	<u>8—</u> 73 76
*NOTE: THESE EBS COMPONENTS MUST INCLUDE SIGN.				
EXAMPLES: 10 km/h = <u>+010</u> -7 km/h = <u>-007</u>				
ENERGY DISSIPATED BY CRUSH (kj)	<u>0107</u> 25 28	<u>8—</u> 43 46	<u>0046</u> 59 62	<u>8—</u> 77 80
RECONSTRUCTION				
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL	<u>22</u> 29 30		<u>22</u> 63 64	
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL				
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL				
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL				
NOT RECONSTRUCTED BECAUSE				
(02) INSUFFICIENT DATA				
(03) EXCESSIVE UNDERRIDE/ OVERRIDE				
(04) ROLLOVER				
(05) VAULTING				
(06) OTHER TRAVEL IN MORE THAN ONE PLANE				
(07) NON-HORIZONTAL FORCE				
(08) SIDESWIPE-TYPE DAMAGE				
(09) YIELDING OBJECT				
(10) OTHER:				
(11) AT LEAST ONE VEHICLE BEYOND SCOPE				
(12) OTHER VEHICLE NOT INSPECTED				
MODE				
(1) CDC ONLY				
(2) CDC & DETAILED DAMAGE	<u>2</u> 31		<u>2</u> 65	
(3) TRAJECTORY & CDC				
(4) TRAJECTORY & CDC & DETAILED DAMAGE				
(5) NOT RECONSTRUCTED				
COMPUTER PROGRAM SPECIFY: <u>WINSASH</u>				

Duplicate columns 1-8  
from the previous card.

Module C R Format 0 3  
9 10 11 12

# CRASH RECONSTRUCTION CR-3

## NOTES:

1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.

2. MEASURE  $C_1$  TO  $C_6$  FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.

3.  $D$  IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.

4. USE THE CENTER OF THE WHEELBASE AS THE CG.

CASE VEHICLE

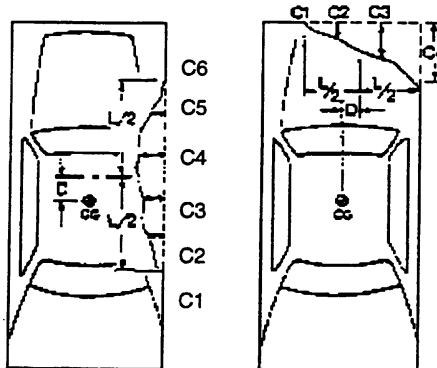
LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L

## PLANE:

- (1) Bumper
- (2) Above Bumper
- (3) Sill
- (4) Above Sill
- (5) Other \_\_\_\_\_
- (9) Unknown



DL 28  
UDL 132

## CRUSH PROFILE IN CENTIMETERS

NOTE: Each line in the table below is a separate record (card).

Duplicate columns 1 - 12 for each completed line.

Specific Impact Number	Plane of Impact C-Measur.	Direct Damage		Field L	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>	±D
		Length (DDL)	Max Crush								
1	1	28	72	112	6	9	15	26	36	72	+66
-	Free space		-13		-13	-4	-1	-1	-4	-13	
1	1	028	059	112	000	005	014	025	032	059	+066
13	14	15 16 17	18 19 20	21 22 23	24 25 26	27 28 29	30 31 32	33 34 35	36 37 38	39 40 41	42 43 44 45
2	4	116	45	192	0	9	16	29	14	0	-96
	4							45			
	Average							37			
2	4	116	045	192	000	009	016	037	014	000	-096



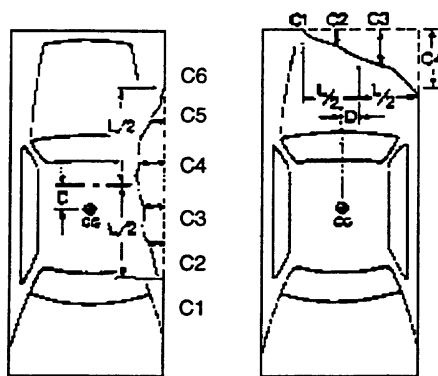
**NOTES:**

1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.
2. MEASURE  $C_1$  TO  $C_6$  FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.
3.  $D$  IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.
4. USE THE CENTER OF THE WHEELBASE AS THE CG.

## OTHER VEHICLE LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L



**PLANE:**

- (1) Bumper  
(2) Above Bumper  
(3) Sill  
(4) Above Sill  
(5) Other \_\_\_\_\_  
(9) Unknown

DL \_\_\_\_\_

UDL \_\_\_\_\_

### CRUSH PROFILE IN CENTIMETERS

**NOTE:** Each line in the table below is a separate record (card).

**Duplicate columns 1 - 12 for each completed line.**

[illegible]

Duplicate columns 1-8  
from the previous card.

Module W T Format 0 1  
9 10 11 12

# WHEELS AND TIRES

WT-1

## WHEELS--DAMAGED

- (0) NO  
(1) YES  
(9) UNKNOWN

*Torn off*

LF 1  
13

RF 1

RR 0

LR 6  
16

## TIRE TREAD TYPE

- (1) REGULAR  
(2) SNOW  
(3) SLICKS  
(4) ALL WEATHER (MS)  
(7) OTHER: \_\_\_\_\_  
(9) UNKNOWN

LF 4  
17

RF 4

RR 4

LR 4  
20

## CARCASS CONSTRUCTION

- (1) BIAS  
(2) BELTED BIAS  
(3) RADIAL  
(4) ELLIPTICAL  
(5) HI PRESSURE SPARE  
(6) SPACE SAVER SPARE  
(7) OTHER: \_\_\_\_\_  
(9) UNKNOWN

LF 3  
21

RF 3

RR 3

LR 3  
24

SIZE (NOT DOT CODE. IF UNKNOWN, USE 9'S)

LF P 215 70 R 15  
25

RF ↓  
35

RR ↓  
45

LR ↓  
55

IF VEHICLE IS EQUIPPED WITH DUAL  
WHEELS, COMPLETE FOR OUTER WHEELS  
AND MAKE NOTES ON INNER WHEELS.

NOTES: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Duplicate columns 1-8  
from the previous card.

Module F T Format 0 1  
9 10 11 12

## FUEL AND FUEL TANKS FT-1

### TYPE OF PROPULSIVE FUEL

- (1) GASOLINE
- (2) DIESEL OIL
- (3) LPG
- (4) ELECTRIC
- (7) OTHER: \_\_\_\_\_
- (9) UNKNOWN

1  
13

### AUXILIARY TANK TYPE

- (1) OEM TANK
- (2) AFTER MARKET TANK
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

8  
21

### MAIN TANK LOCATION

322  
14 16

### AUXILIARY TANK LOCATION

888  
22 24

### MAIN FILLER CAP LOCATION

213  
17 19

### AUXILIARY FILLER CAP LOCATION

888  
25 27

### MAIN TANK MATERIAL

3  
20

### AUXILIARY TANK MATERIAL

8  
28

## TANK AND FILLER CAP LOCATION CODES

### FIRST DIGIT (LONGITUDINAL)

- (1) BEHIND KICK-UP
- (2) IN KICK-UP
- (3) BETWEEN KICK-UP & COWL
- (4) FORWARD OF COWL
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

### SECOND DIGIT (LATERAL)

- (1) LEFT OF FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) RIGHT OF FRAME
- (4) DUAL, RIGHT & LEFT TANKS
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

### THIRD DIGIT (VERTICAL)

- (1) BELOW FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) ABOVE FRAME
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

## TANK MATERIAL CODES

- (1) STEEL
- (2) ALUMINUM
- (3) PLASTIC
- (7) OTHER
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

Duplicate columns 1-8  
from the previous card.

Module F L Format 0 1  
9 10 11 12

FUEL LEAKAGE FL-1

# DID FUEL LEAKAGE RESULT FROM A CRASH EVENT

(0) NO KNOWN LEAKAGE SKIP PAGE.

(1) YES COMPLETE PAGE.

0  
13

LEAK NUMBER	I LEAKING COMPONENT	II COMPONENT SOURCE	III TYPE OF DAMAGE	IV SEVERITY OF DAMAGE	V LOCATION OF LEAK	EVENT NUMBER
#1	<u>    </u> <u>    </u> 14 15	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u> 21
#2	<u>    </u> <u>    </u> 22 23	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u> 29
#3	<u>    </u> <u>    </u> 30 31	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u> 37
#4	<u>    </u> <u>    </u> 38 39	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u> 45
#5	<u>    </u> <u>    </u> 46 47	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u> 53

## I LEAKING COMPONENT

### TANK AREA

- (11) MAIN FUEL TANK (INCLUDING VAPOR RECOVERY DOME)
- (12) AUXILIARY FUEL TANK
- (13) MAIN TANK FILLER TUBE
- (14) MAIN TANK CAP (GAS CAP)
- (15) AUXILIARY TANK FILLER TUBE
- (16) AUXILIARY TANK CAP (GAS CAP)
- (19) TANK AREA, DETAILS UNKNOWN

### DELIVERY SYSTEM

- (21) FUEL FEED LINE (MAIN TANK TO FUEL PUMP)
- (22) FUEL FEED LINE (AUXILIARY TANK TO FUEL PUMP)
- (23) FUEL RETURN LINE (FUEL PUMP TO TANK)
- (24) INLINE FUEL FILTER
- (25) FUEL LINE (PUMP TO CARBURETOR OR INJECTOR PUMP)
- (26) CARBURETOR TO INJECTOR PUMP
- (27) FUEL PUMP
- (29) DELIVERY SYSTEM, DETAILS UNKNOWN

### EVAPORATIVE EMISSION CONTROL SYSTEM

- (31) ATMOSPHERIC VENT PIPE (NON-EEC EQUIPPED)
- (32) EEC PIPE (VAPOR CANISTER TO CARBURETOR)

### EEC SYSTEM (CONTINUED)

- (33) VAPOR RECOVERY HOSES (CANISTER TO CARBURETOR)
- (34) LIQUID-VAPOR SEPARATOR (UNLESS PART OF TANK)
- (35) CANISTER
- (39) EEC SYSTEM, DETAILS UNKNOWN

- (49) ENGINE COMPARTMENT, COMPONENT UNKNOWN
- (99) COMPONENT UNKNOWN

## II COMPONENT SOURCE

- (1) OEM
- (2) AFTER MARKET
- (9) UNKNOWN

## III TYPE OF DAMAGE

- (1) DENTED/CRUSHED
- (2) PUNCTURED
- (3) RUPTURED
- (4) SEVERED/GROSS TEARS
- (5) DISCONNECTED/DEFEATED
- (9) UNKNOWN

## IV SEVERITY OF DAMAGE

- (1) MINOR
- (2) MODERATE
- (3) SEVERE
- (4) DISCONNECTED/DEFEATED
- (9) UNKNOWN

## V LOCATION OF LEAK

FIRST DIGIT  
(LONGITUDINAL LOCATION)

- (1) F, FORWARD OF COWL
- (2) P, BETWEEN COWL & REAR BULKHEAD
- (3) B, BEHIND REAR BULKHEAD
- (4) Y, F, & P
- (5) Z, P, & B
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

SECOND DIGIT  
(LATERAL LOCATION)

- (1) L, LEFT
- (2) C, CENTER
- (3) R, RIGHT
- (4) Y, LEFT CENTER (L & C)
- (5) Z, RIGHT CENTER (R & C)
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

Duplicate columns 1-8  
from the previous card.

Module F R Format 0 1  
9 10 11 12

FIRE FR-1

WAS THERE FIRE IN OR ON CASE VEHICLE?

(0) NO SKIP PAGE.

0

13

(1) YES COMPLETE PAGE.

DID FIRE START IN CASE VEHICLE?

- (0) NO
- (1) YES
- (9) UNKNOWN

14

FLAME PROPOGATION RATE

- (1) RAPID/EXPLOSIVE
- (2) SLOW/MODERATE
- (9) UNKNOWN

15

SEVERITY OF FIRE DAMAGE

- (1) MINOR
- (2) MODERATE
- (3) SEVERE
- (9) UNKNOWN

16

DID AN INJURY TO CASE  
VEHICLE OCCUPANT RESULT FROM  
FIRE IN OR ON CASE VEHICLE?

- (0) NO
- (1) YES
- (9) UNKNOWN

17

PROVIDE NOTES IF FIRE OCCURRED.

Duplicate columns 1-8  
from the previous card.

Module E D Format 0 1  
9 10 11 12

# EXTERIOR DAMAGE

ED-1

## HOOD PERFORMANCE

FOR THE FOLLOWING, USE CODES:

- (0) NO
- (1) YES
- (8) NOT APPLICABLE
- (9) UNKNOWN

HOOD LATCH(ES)- -RELEASED

0  
13

-DAMAGED

1  
14

-JAMMED

1  
15

*Prried  
Oper*

HOOD HINGES- -LEFT, DAMAGED

1  
16

-LEFT, SEPARATED  
(COMPLETE)

0  
17

-RIGHT, DAMAGED

1  
18

-RIGHT, SEPARATED  
(COMPLETE)

0  
19

HOOD REMAINED ON VEHICLE

1  
20

REAR EDGE OF HOOD- -ELEVATED

1  
21

-CONTACTED WINDSHIELD

1  
22

-PENETRATED WINDSHIELD

0  
23

HOOD LATCH LOCATION

- (1) FRONT OF VEHICLE
- (2) COWL AREA
- (3) SIDE
- (8) NOT APPLICABLE
- (9) UNKNOWN

1  
24

## ENGINE OR TRANSMISSION MOUNT

SEPARATION (COMPLETE)

- (0) NO
- (1) YES
- (9) UNKNOWN

0  
25

## STEERING COL FLEXIBLE COUPLING

FLEXIBLE COUPLING TYPE

- (0) NONE
- (1) FLEXIBLE MATERIAL
- (2) POT
- (3) SINGLE U-JOINT
- (4) DOUBLE U-JOINT
- (5) FLEXIBLE CABLE
- (6) COMBINATION OF ABOVE  
(CIRCLE EACH)
- (7) OTHER: \_\_\_\_\_
- (8) EQUIPPED, TYPE UNKNOWN
- (9) UNKNOWN, IF EQUIPPED

9  
26

COUPLING-

-DAMAGED

9  
27

(USE CODES  
FROM HOOD  
PERFORMANCE)

-SEPARATED  
(COMPLETE)

9  
28

## ENG COMPART TELESCOPING UNIT

TYPE OF UNIT

- (00) NONE INSTALLED
- (01) - (07) SEE UNITS ON PAGE ED-2
- (88) NOT COLLECTED
- (97) OTHER: \_\_\_\_\_
- (98) EQUIPPED, TYPE UNKNOWN
- (99) UNKNOWN IF EQUIPPED

8 8  
29 30

ORIGINAL LENGTH (mm)

F (OR H): \_\_\_\_\_

TELESCOPED LENGTH (mm)

G: \_\_\_\_\_

DIFFERENCE (mm)

F (OR H) - G

(IF LESS THAN 15mm, ENTER "000".)

- (888) NOT COLLECTED
- (991) NOT MEASURED/NO  
COMPRESSION
- (992) COMPRESSED, AMOUNT  
UNKNOWN
- (993) DEVICE EXTENDED
- (997) UNABLE TO BE MEASURED
- (998) NOT APPLICABLE (NOT  
EQUIPPED)
- (999) UNKNOWN

8 8 8  
31 32 33

## LEFT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE?

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE  
 (9) UNKNOWN

8  
 34

## LEFT DOORS

HOW DID DOORS  
OPEN DURING COLLISION?

USE CODES:

(0) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION  
 (2) DOOR-LATCH SEPARATION  
 (3) LATCH-STRIKER SEPARATION  
 (4) STRIKER-PILLAR SEPARATION  
 (5) BODY DISTORTION  
 (6) COMBINATION OF ABOVE  
 (CIRCLE EACH)  
 (7) OPENED, REASON UNKNOWN

- (8) NOT APPLICABLE (NO DOOR)  
 (9) UNKNOWN

## LEFT PILLARS

PILLARS SEPARATED COMPLETELY -

USE CODES:

- (0) NO  
 (1) YES  
 (4) NO SEPARATION, BUT DAMAGED  
 (8) NOT APPLICABLE (NOT EQUIPPED)  
 (9) UNKNOWN

-A-PILLAR, UPPER

4  
 35

LOWER

4  
 36

-B-PILLAR, UPPER

4  
 37

LOWER

4  
 38

-C-PILLAR, UPPER

4  
 39

LOWER

4  
 40

-D-PILLAR, UPPER

4  
 41

LOWER

0  
 42

-FRONT

0  
 43

-REAR

0  
 44

## DOORS JAMMED CLOSED-

USE CODES:

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE (NO DOOR)  
 (9) UNKNOWN

-FRONT

1  
 45

-REAR

1  
 46

## REAR DOOR

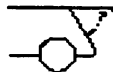
## REAR DOOR TYPE

- (0) NO DOOR (INCLUDES PICKUPS)
- (1) HATCHBACK
- (2) ONE-WAY TAILGATE
- (3) TWO-WAY TAILGATE
- (4) CLAMSHELL/DISAPPEARING TAILGATE
- (5) SINGLE DOOR
- (6) DOUBLE DOOR
- (9) UNKNOWN

Hatchback



One-way



Two-way



or



Clamshell



Single door



Double door

HOW DID DOOR  
OPEN DURING COLLISION?

- (0) DOOR DID NOT OPEN

## OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION
- (2) DOOR-LATCH SEPARATION
- (3) LATCH-STRIKER SEPARATION
- (4) STRIKER-PILLAR SEPARATION
- (5) BODY DISTORTION
- (6) COMBINATION OF ABOVE  
(CIRCLE EACH)
- (7) OPENED, REASON UNKNOWN
- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

## DOOR JAMMED CLOSED

- (0) NO
- (1) YES
- (8) NOT APPLICABLE (NO DOOR)
- (9) UNKNOWN

2  
47

## OTHER REAR DAMAGE

WAS PARTITION TO LUGGAGE AREA  
DAMAGED DURING COLLISION?

- (0) NO
- (1) YES
- (8) NOT APPLICABLE
- (9) UNKNOWN

8  
50

## SPARE TIRE

- (0) NO SPARE TIRE
- (1) NOT ATTACHED BEFORE COLLISION
- (2) ATTACHED, NOT SEPARATED IN COLLISION
- (3) ATTACHED, SEPARATED DUE TO COLLISION
- (8) NOT COLLECTED
- (9) UNKNOWN

8  
51

## TRAILER HITCH TYPE

- (0) NO HITCH

## BALL-AND-SOCKET TYPES

- (1) TEMPORARY FRAMEWORK (E.G. RENTAL CLAMP-ON)
- (2) BUMPER-MOUNT ONLY (E.G. LIGHT TRUCK)
- (3) BUMPER-AND-FRAME (BUT NON-EQUALIZING)
- (4) LOAD EQUALIZING

## OTHER TYPES

- (5) RING-AND-PINTLE
- (6) FIFTH-WHEEL (INCL. P/U)
- (7) OTHER (E.G. CLEVIS-AND-PIN)

- (8) EQUIPPED, TYPE UNKNOWN
- (9) UNKNOWN IF EQUIPPED

0  
52

TRAILER TYPE  
(AT TIME OF COLLISION)

- (0) NO TRAILER
- (1) TRAVEL-TRAILER/CAMPER
- (2) MOBILE HOME
- (3) BOAT/SNOWMOBILE/ATV TRAILER
- (4) UTILITY TRAILER
- (5) TOWED CAR
- (7) OTHER: \_\_\_\_\_
- (8) TRAILER, TYPE UNKNOWN
- (9) UNKNOWN

0  
53

0  
49



## RIGHT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE?

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE  
 (9) UNKNOWN

8  
 54

## RIGHT DOORS

HOW DID DOORS  
OPEN DURING COLLISION?

USE CODES:

(00) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (01) HINGE AREA SEPARATION  
 (02) DOOR-LATCH SEPARATION  
 (03) LATCH-STRIKER SEPARATION  
 (04) STRIKER-PILLAR SEPARATION  
 (05) BODY DISTORTION  
 (06) COMBINATION OF ABOVE  
 (CIRCLE EACH)  
 (07) OPENED, REASON UNKNOWN  
 (11) VAN RIGHT-REAR DOOR OPENED  
 (ANY MECHANISM)

- (98) NOT APPLICABLE (NO DOOR)  
 (99) UNKNOWN

## RIGHT PILLARS

PILLARS SEPARATED COMPLETELY -

USE CODES:

- (0) NO  
 (1) YES  
 (4) NO SEPARATION, BUT DAMAGED  
 (8) NOT APPLICABLE (NOT EQUIPPED)  
 (9) UNKNOWN

-A-PILLAR, UPPER

4  
 55

LOWER

4  
 56

-B-PILLAR, UPPER

4  
 57

LOWER

4  
 58

-C-PILLAR, UPPER

0  
 59

-D-PILLAR, LOWER

4  
 60

-D-PILLAR, UPPER

0  
 61

LOWER

0  
 62

-FRONT

0 0  
 63 64

-REAR

0 0  
 65 66

## DOORS JAMMED CLOSED-

USE CODES:

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE (NO DOOR)  
 (9) UNKNOWN

-FRONT

1  
 67

-REAR

1  
 68

## VAN REAR DOOR TYPE

- (0) VAN, NO REAR DOOR  
 (1) TRACK (SLIDING) - RIGHT SIDE  
 (2) SINGLE-HINGED - RIGHT SIDE  
 (3) DOUBLE-HINGED - RIGHT SIDE  
 (4) TRACK (SLIDING) - RIGHT & LEFT SIDE  
 (5) SINGLE-HINGED - RIGHT & LEFT SIDE  
 (6) DOUBLE-HINGED - RIGHT & LEFT SIDE  
 (7) TRACK AND HINGED COMBINATION  
 (8) NOT APPLICABLE (NOT A VAN)  
 (9) UNKNOWN

4  
 69

## WINDSHIELD DAMAGE

## WINDSHIELD CRACKED

- (0) NO  
(1) YES  
(8) NOT APPLICABLE  
(9) UNKNOWN

WINDSHIELD BROKEN  
(PLASTIC INTERLAYER TORN)

- (0) NO  
(1) YES  
(8) NOT APPLICABLE  
(9) UNKNOWN

CRACKED OR BROKEN  
BY OCCUPANT CONTACT

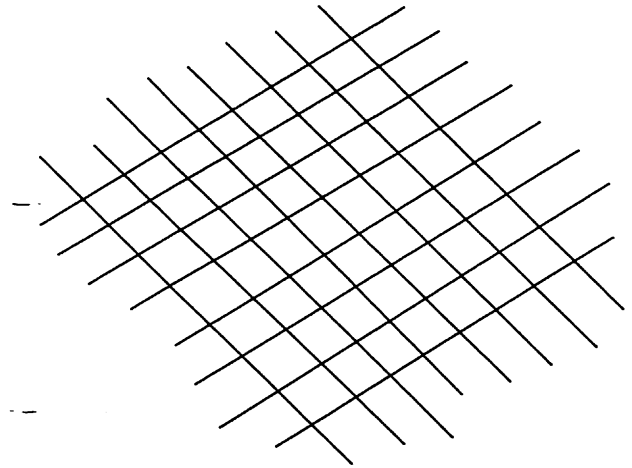
- (0) NO  
(1) YES  
(8) NOT APPLICABLE  
(9) UNKNOWN

## EXTENT OF BOND SEPARATION

- (0) NONE  
(1) 1 - 20%  
(2) 21 - 40  
(3) 41 - 60  
(4) 61 - 80  
(5) 81 - 99  
(6) TOTAL  
(7) SEPARATED, AMOUNT  
UNKNOWN  
(8) NOT APPLICABLE  
(9) UNKNOWN

190

## WINDSHIELD MARK ON CASE VEHICLE:



## WINDSHIELD CODE

- (97) DESCRIBED BUT NOT CODED  
(98) NOT APPLICABLE (NO WINDSHIELD)  
(99) UNKNOWN

99  
74 75

## Roof

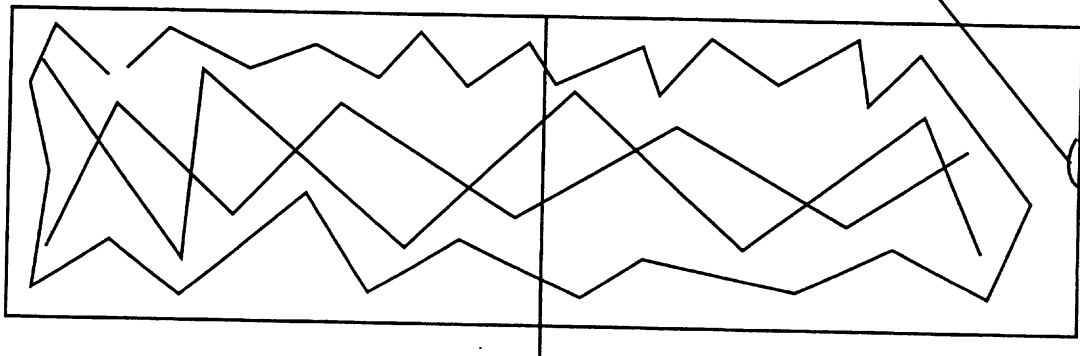
DID T-ROOF/SUN ROOF OPEN  
DURING COLLISION?

- (0) NO  
(1) YES  
(8) NOT APPLICABLE  
(NOT A T-ROOF OR SUN ROOF)  
(9) UNKNOWN

8  
76

LOCATE AREA OF WINDSHIELD INTEREST OR DAMAGE WITH DIMENSIONS (VERTICAL & HORIZONTAL) ON THIS DIAGRAM OF THE WINDSHIELD AS VIEWED FROM INSIDE.

Small amount of bond separation  
less than 1% of total



L

C

R

## STEERING WHEEL

### STEERING WHEEL RIM DAMAGE

- (0) NONE
- (1) DEFORMED SLIGHTLY
- (2) SEVERELY BENT
- (3) BROKEN
- (9) UNKNOWN

0  
13

### NUMBER OF STEERING WHEEL SPOKES

- (9) UNKNOWN

4  
14

### STEERING WHL SPOKE DAMAGE

- (0) NONE
- (1) DEFORMED SLIGHTLY
- (2) SEVERELY BENT
- (3) BROKEN
- (9) UNKNOWN

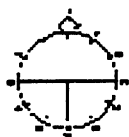
0  
15

### STEERING WHEEL POSITION AT TIME OF COLLISION

IN WHAT O'CLOCK POSITION WAS THE  
NORMAL TOP OF THE WHEEL POINTED  
WHEN THE COLLISION OCCURRED?

#### EXAMPLES

O'CLOCK = 12



(NORMAL STRAIGHT  
AHEAD)

O'CLOCK = 02



O'CLOCK = 12

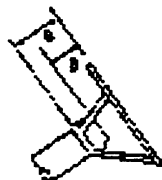
(99) UNKNOWN

## STEERING WHEEL ENERGY ABSORBING DEVICE



(1) EXAMPLES:

BARRACUDA, 70 - 74  
CHALLENGER, 70 - 74  
CAPRI, 71 - 77



(2) EXAMPLES:

OMNI, 78 -  
HORIZON, 78 -

## STEERING COLUMN OPTIONS

### TILT FEATURE

- (0) NOT EQUIPPED
- (1) YES, EQUIPPED, UNK POSITION
- (2) UP
- (3) MIDDLE
- (4) LOWER
- (9) UNKNOWN IF EQUIPPED

3  
16

### SWING-AWAY FEATURE

- (0) NOT EQUIPPED
- (1) YES, EQUIPPED
- (9) UNKNOWN IF EQUIPPED

0  
17

### TELESCOPING FEATURE

- (0) NOT EQUIPPED
- (1) YES, EQUIPPED
- (9) UNKNOWN IF EQUIPPED

0  
18

### TYPE OF DEVICE

- (0) NONE
- (1) CONVOLUTED OR MESH CYLINDER
- (2) DEEP DISH STEERING WHEEL
- (7) OTHER: \_\_\_\_\_
- (8) NOT COLLECTED
- (9) UNKNOWN IF EQUIPPED

8  
19

### ORIGINAL DIMENSION (mm)

A: \_\_\_\_\_

### DAMAGE DIMENSION (mm)

B: \_\_\_\_\_

### DIFFERENCE (mm)

A - B

- (888) NOT COLLECTED
- (991) NOT MEASURED/NO APPARENT  
COMPRESSION
- (992) COMPRESSED, AMOUNT UNKNOWN
- (993) DEVICE EXTENDED
- (997) UNABLE TO MEASURE
- (998) NOT APPLICABLE (NOT EQUIPPED)
- (999) UNKNOWN

8 8 8  
20 22

# STEERING COLUMN ENERGY ABSORBING DEVICE

TYPE OF DEVICE \* (IF 27 OR 28)

- (00) NOT EQUIPPED  
(88) NOT COLLECTED  
(99) UNKNOWN

8 8  
23 24

ORIGINAL LENGTH (mm)

C: \_\_\_\_\_

COMPRESSED LENGTH (mm)

D: \_\_\_\_\_

BRACKET DEFLECTION (IF CODE 36, 48,  
OR 49 ABOVE)

OR

COMPRESSION (OR EXTRUSION) (mm)

C - D (OR E) (TOLERANCE:  $\pm 10$ )

- (888) NOT COLLECTED  
(991) NOT MEASURED/NO APPARENT  
COMPRESSION  
(992) COMPRESSED, AMOUNT UNKNOWN  
(993) DEVICE EXTENDED  
(997) UNABLE TO BE MEASURED  
(998) NOT APPLICABLE (NOT EQUIPPED)  
(999) UNKNOWN

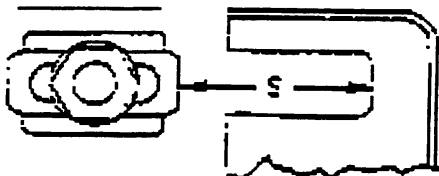
8 8 8  
25 27

\* (ADD A &amp; B FOR TOTAL COMPRESSION)

SHEAR CAPSULE SEPARATION (mm)

S (USE AVG. OF LEFT &amp; RIGHT CAPSULES.)

LT:



RT:

- (888) NOT COLLECTED  
(991) NOT MEASURED/NO APPARENT  
SEPARATION  
(992) SEPARATED, AMOUNT UNKNOWN  
(997) UNABLE TO BE MEASURED  
(998) NOT APPLICABLE (NOT EQUIPPED)  
(999) UNKNOWN

8 8 8  
28 30

COLUMN VERTICAL ROTATION

- (0) NO APPARENT ROTATION  
(1) UPWARD APPARENT ROTATION  
(2) DOWNWARD APPARENT ROTATION  
(9) UNKNOWN

0  
31

COLUMN LATERAL ROTATION

- (0) NO APPARENT ROTATION  
(1) LEFT APPARENT ROTATION  
(2) RIGHT APPARENT ROTATION  
(9) UNKNOWN

1  
32

## STEERING WHEEL (CONTINUED)

STEERING WHEEL HUB DAMAGE

- (0) NONE  
(1) OCCUPANT CONTACT  
(2) AIRBAG  
(3) OTHER \_\_\_\_\_  
(9) UNKNOWN

0  
33



1 = Definitely 2 = Probably 3 = Possible

## INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)				Dominant Crush Direction
		Comparison Value	–	Intruded Value	= Intrusion	
31	Roof siderail	125	–	95	= 30	Y
31	C-pillar	125	–	92	= 30	Y
21	Lt rear door	157	–	130	= 27	Y
13	Lower A-pillar	189	–	112	= 77	X
13	Instrument panel	185	–	114	= 71	X
12	Instrument panel	185	–	143	= 44	X
11	Instrument panel	185	–	158	= 27	X
13	Lower A-pillar	138	–	119	= 19	Y
13	Instrument panel	153	–	120	= 33	Y
13	Windshield header	179	–	160	= 19	X
13	Roof	113	–	110	= 3	Z
			–		=	
			–		=	

## OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	Knee bolster	Driver	Lt knee	Scuff mark	2
B	knee bolster	Driver	Rt knee	Scuff mark	2
C	Knee bolster	Driver	Rt knee	Scuff mark	2
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					



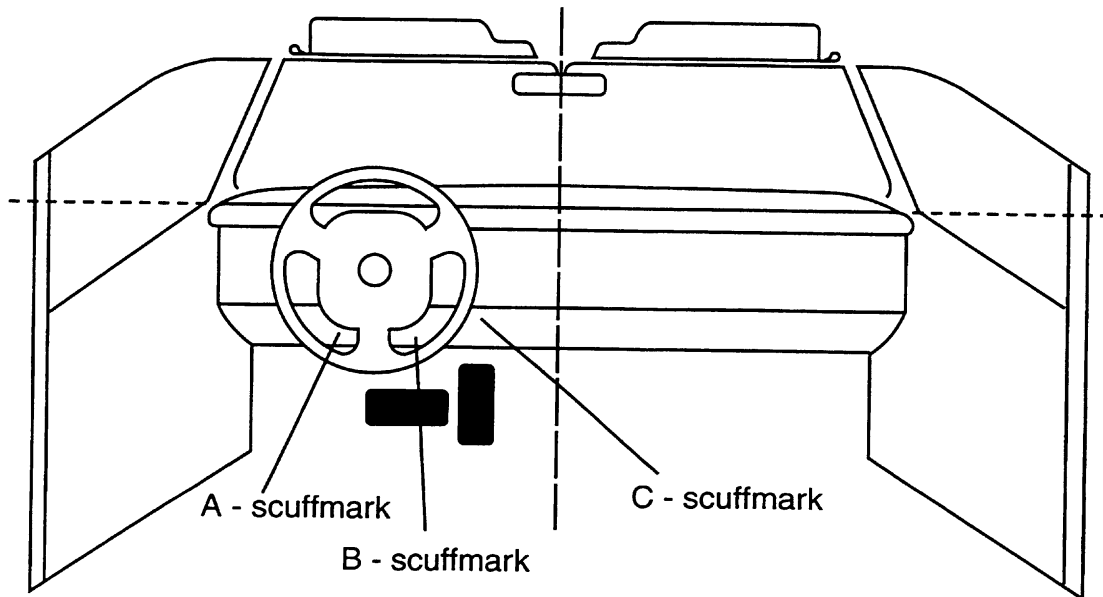
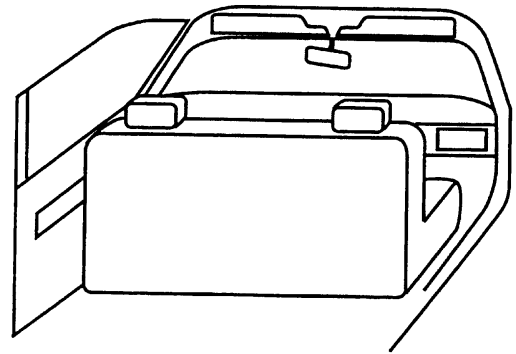
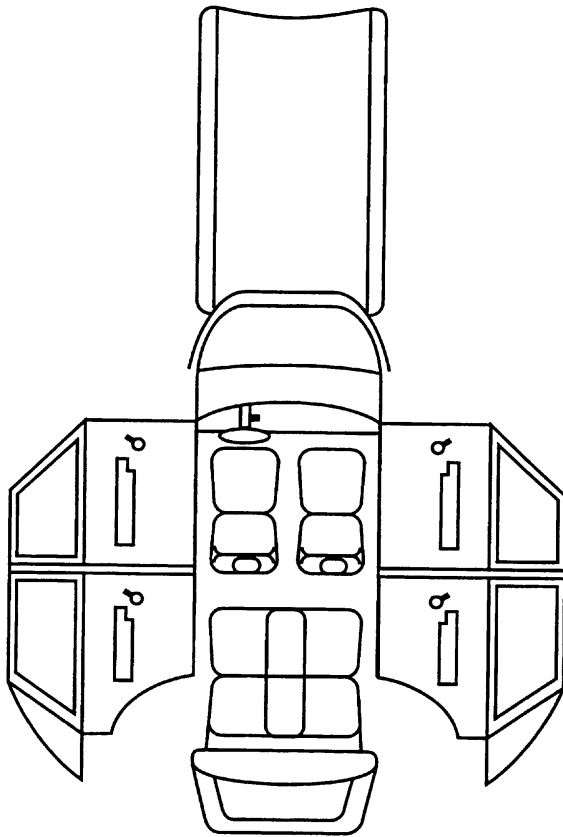
INTRUSION IT-1					
Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)			Dominant Crush Direction
		Comparison Value	— Intruded Value	= Intrusion	
			—	=	
			—	=	
			—	=	
			—	=	
			—	=	
			—	=	
			—	=	
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			—	=	
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OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A					
B					
C					
D					
E					
F					
G					
H					
I					
J					



VEHICLE OCCUPANT CONTACT DIAGRAM



## CODES FOR COLUMN B, OCCUPANT SPACE NUMBER

OCCUPANT SPACE NUMBER IS A TWO-DIGIT CODE. THE USE OF THE CODE IS DETERMINED BY THE VEHICLE SEAT CONFIGURATION AT THE TIME OF THE ACCIDENT.

## FIRST DIGIT

THE FIRST DIGIT (LEFT DIGIT) DENOTES THE SEAT ROW, WITH CODE VALUES FROM 1 TO 5.

## SECOND DIGIT

THE SECOND DIGIT (RIGHT DIGIT) DENOTES THE POSITION ON THE SEAT AND, IN SOME INSTANCES, THE WIDTH OF THE SEAT.

- (1) LEFT (3) RIGHT ..... INDIVIDUAL SEAT
- (1) LEFT (2) CENTER (3) RIGHT ..... BENCH: FULL WIDTH 3 PASSENGER
- (1) LEFT (2) LEFT CENTER (6) RIGHT CENTER (3) RIGHT ..... BENCH: FULL WIDTH 4 PASSENGER
- (1) LEFT (2) CENTER (5) RIGHT & ..... BENCH: PARTIAL WIDTH, LEFT AISLE SPACE
- (0) LEFT & SPACE (2) CENTER (5) RIGHT & ..... BENCH: PARTIAL WIDTH, CENTERED SPACE
- (4) ENTIRE VEHICLE WIDTH ..... CARGO AREA

## EXAMPLES

THE TWO FIGURES BELOW PROVIDE EXAMPLES OF THE OCCUPANT SPACE NUMBER.

PASSENGER CAR  
5 PASSENGERS

X	X	11	13
X	X	X	21 22 23

VAN  
12 PASSENGER CAPACITY

X	X	11	13
X	X	X	21 22 25
X	X	X	31 32 35
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
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X	X	X	X
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X	X	X	X
X	X	X	X
X	X	X	

## CODES FOR COLUMN F, MEASUREMENT AXIS

- (X) X-AXIS (FORE & AFT)  
(Y) Y-AXIS (LATERAL)  
(Z) Z-AXIS (VERTICAL)

## CODES FOR COLUMNS G, H, I &amp; J, OCCUPANT &amp; INJURY NUMBERS

OCCUPANT NUMBER	INJURY NUMBER	CONTACT
(00)	(00)	NO CONTACT
(##)	(00)	CONTACT, NO INJURY
(97)	(99)	CONTACT, OCCUPANT UNKNOWN, INJURY UNKNOWN
(99)	(00) OR (99)	UNKNOWN IF CONTACT



## CODES FOR COLUMN C, INTRUDING COMPONENT OR OBJECT

**NOTE: DO NOT CODE OBJECTS OTHER THAN COMPONENTS OF CASE VEHICLE.**

## INDIVIDUAL COMPONENT

## INTERNAL

- (01) INSTRUMENT PANEL
- (02) FIRE WALL
- (03) TOE PAN
- (04) FLOOR PAN
- (05) STEERING COLUMN
- (06) WINDSHIELD
- (07) WINDSHIELD HEADER
- (08) A-PILLAR
- (09) DOOR PANEL OR SIDE PANEL
- (10) WINDOW FRAME
- (11) B-PILLAR
- (12) C-PILLAR
- (13) D-PILLAR
- (14) ROOF SIDE RAILS
- (15) ROOF OR CONVERTIBLE TOP
- (16) BACKLIGHT HEADER
- (17) FRONT SEAT-BACK SURFACE/  
SEAT-BACK BACK SURFACE
- (18) SECOND SEAT-BACK SURFACE  
SEAT-BACK BACK SURFACE
- (19) THIRD SEAT-BACK SURFACE  
SEAT-BACK BACK SURFACE
- (20) FOURTH SEAT-BACK SURFACE  
SEAT-BACK BACK SURFACE
- (21) FIFTH SEAT-BACK SURFACE  
SEAT-BACK BACK SURFACE
- (22) BACK PANEL/BACK DOOR SURFACE
- (23) SEAT CUSHION SURFACE/EDGE
- (24) CONSOLE
- (25) OTHER (*DESCRIBE*)
- (26) UNKNOWN INTERNAL SURFACES
- (28) TRANSMISSION TUNNEL (HUMP)
- (29) SIDE FOOTWELL PANEL (KICKPANEL)
- (30) SILL

## EXTERNAL

- (43) HOOD
- (44) OBJECT EXTERNAL TO PASSENGER  
COMPARTMENT BUT PART  
OF CASE VEHICLE
- (45) OUTSIDE SURFACE OF CASE VEHICLE
- (46) OTHER (*E.G. SPARE TIRE,  
JACK. DESCRIBE.*)
- (49) UNKNOWN EXTERNAL OBJECT

## GROUPED FOR MASSIVE INTRUSION INTO AN OCCUPANT SPACE

USE ONLY IF ALL THESE COMPONENTS  
INTRUDED INTO A SINGLE OCCUPANT SPACE.

- |                        |                         |
|------------------------|-------------------------|
| (50) WINDSHIELD HEADER | (60) ROOF               |
| A-PILLAR               | ROOF RAIL               |
| ROOF SIDE RAIL         | A-PILLAR                |
|                        | B-PILLAR                |
| (51) INSTRUMENT PANEL  | C-PILLAR                |
| A-PILLAR               | WINDOW FRAME            |
| DOOR PANEL             | DOOR PANEL              |
|                        | FLOOR PAN               |
| (52) INSTRUMENT PANEL  | (61) INSTRUMENT PANEL   |
| A-PILLAR               | TOE PAN                 |
| WINDSHIELD HEADER      | WINDSHIELD HEADER       |
| (53) DOOR PANEL        | A-PILLAR                |
| B-PILLAR               | ROOF RAIL               |
| ROOF RAIL              | WINDOW FRAME            |
|                        | DOOR PANEL              |
| (54) DOOR PANEL        | ROOF                    |
| A-PILLAR               |                         |
| ROOF RAIL              | (62) ROOF               |
|                        | ROOF RAIL               |
| (55) INSTRUMENT PANEL  | C-PILLAR                |
| FLOOR PAN              | WINDOW FRAME            |
| A-PILLAR               | FLOOR PAN               |
| DOOR FRAME             | SECOND SEAT             |
|                        | DOOR PANEL              |
| (56) ROOF RAIL         | (63) ROOF RAIL          |
| A-PILLAR               | ROOF                    |
| B-PILLAR               | B-PILLAR                |
| WINDOW FRAME           | WINDOW FRAME            |
| (57) ROOF RAIL         | FLOOR PAN               |
| A-PILLAR               | DOOR PANEL              |
| B-PILLAR               | SECOND SEAT             |
| C-PILLAR               | FRONT SEAT              |
| DOOR PANEL             |                         |
| (58) ROOF              | (64) ROOF RAIL          |
| ROOF RAIL              | ROOF OR CONVERTIBLE TOP |
| WINDOW FRAME           | A-PILLAR                |
| DOOR PANEL             | B-PILLAR                |
|                        | WINDOW FRAME            |
| (59) BACKLIGHT HEADER  | WINDOW HEADER           |
| ROOF                   | (65) WINDSHIELD         |
| C-PILLAR               | WINDSHIELD HEADER       |
| THIRD SEAT-BACK        | ROOF SIDE RAIL          |
|                        | (66) WINDSHIELD         |
|                        | WINDSHIELD HEADER       |
|                        | A-PILLAR                |
|                        | (98) NOT APPLICABLE     |
|                        | (99) UNKNOWN            |

Duplicate columns 1-8  
from the previous card.

Module 1 T Format 0 1  
9 10 11 12

INTRUSION IT-5

WAS THERE OCCUPANT COMPARTMENT INTRUSION? 1  
13

WAS INTRUSION CATASTROPHIC? 0  
14

- (0) NO DO NOT ANSWER NEXT QUESTION. SKIP PAGE.  
(1) YES ANSWER NEXT QUESTION.  
(9) UNKNOWN SKIP PAGE.

- (0) NO COMPLETE PAGE.  
(1) YES SKIP PAGE.

Duplicate columns 1-8  
from the previous card.

Module 1 T Format 0 2  
9 10 11 12

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.  
CODES FOR B, F, G, H, I, J ON PAGE IT-3  
CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 1</u>	<u>11</u>	<u>01</u>	<u>1</u>	<u>27</u>	<u>00</u>	<u>00</u>	<u>01</u>	<u>01</u>	<u>01</u>	<u>02</u>
<u>0 2</u>	<u>12</u>	<u>01</u>	<u>1</u>	<u>44</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 3</u>	<u>13</u>	<u>08</u>	<u>1</u>	<u>77</u>	<u>19</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 4</u>	<u>13</u>	<u>01</u>	<u>1</u>	<u>71</u>	<u>33</u>	<u>00</u>	<u>02</u>	<u>17</u>	<u>02</u>	<u>16</u>
<u>0 5</u>	<u>13</u>	<u>07</u>	<u>1</u>	<u>19</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 6</u>	<u>13</u>	<u>15</u>	<u>1</u>	<u>00</u>	<u>00</u>	<u>03</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 7</u>	<u>21</u>	<u>09</u>	<u>2</u>	<u>00</u>	<u>27</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>

NOTE: USE ADDITIONAL PAGE IF MORE THAN 7 INTRUSIONS.

Duplicate columns 1-8  
from the previous card.

Module 1 T Format 0 3  
9 10 11 12

NOTE: IF NO SIDE DOOR INTRUSION,  
SKIP REMAINDER OF PAGE.

SIDE DOOR INTRUSION  
RESULTED FROM

INTRUSION  
NUMBER CAUSE

07 1  
13 15  
16 18  
19 21

CODES  
FOR CAUSE:

- (1) DIRECT  
IMPACT  
(2) INDUCED  
DAMAGE  
(9) UNKNOWN

IF DAMAGE TO DOOR COMPONENT RESULTED IN INCREASED  
DOOR INTRUSION, CODE COMPONENT

INTRUSION  
NUMBER

DAMAGED  
COMPONENT 1

DAMAGED  
COMPONENT 2

CODES  
FOR COMPONENTS

A 07 3  
22 23  
B — —  
26 27  
C — —  
30 31  
D — —  
34 35

7  
25  
— 29  
— 33  
— 37

- (0) NONE  
(1) A-PILLAR  
(2) B-PILLAR  
(3) C-PILLAR  
(4) LATCH/STRIKER  
(5) HINGES  
(7) OTHER: Roof  
Side Rail  
(8) NOT APPLICABLE  
(9) UNKNOWN

Duplicate columns 1-8  
from the previous card.

Module 1 T Format 0 2  
9 10 11 12

INTRUSION IT-6

NOTE: Each line in the table below is a separate record (card).  
Duplicate columns 1 - 12 for each completed line.

-- ADDITIONAL PAGE --

**INTRUSIONS** CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.  
CODES FOR B, F, G, H, I, J ON PAGE IT-3  
CODES FOR C ON PAGE IT-4 OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 8</u>	<u>31</u>	<u>14</u>	<u>2</u>	<u>00</u>	<u>30</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>0 9</u>	<u>31</u>	<u>12</u>	<u>2</u>	<u>00</u>	<u>30</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>	<u>00</u>
<u>1 0</u>	---	---	---	---	---	---	---	---	---	---
<u>1 1</u>	---	---	---	---	---	---	---	---	---	---
<u>1 2</u>	---	---	---	---	---	---	---	---	---	---
<u>1 3</u>	---	---	---	---	---	---	---	---	---	---
<u>1 4</u>	---	---	---	---	---	---	---	---	---	---
<u>1 5</u>	---	---	---	---	---	---	---	---	---	---
<u>1 6</u>	---	---	---	---	---	---	---	---	---	---
<u>1 7</u>	---	---	---	---	---	---	---	---	---	---
<u>1 8</u>	---	---	---	---	---	---	---	---	---	---
<u>1 9</u>	---	---	---	---	---	---	---	---	---	---
<u>2 0</u>	---	---	---	---	---	---	---	---	---	---
<u>2 1</u>	---	---	---	---	---	---	---	---	---	---
<u>2 2</u>	---	---	---	---	---	---	---	---	---	---
<u>2 3</u>	---	---	---	---	---	---	---	---	---	---
<u>2 4</u>	---	---	---	---	---	---	---	---	---	---
<u>2 5</u>	---	---	---	---	---	---	---	---	---	---

Duplicate columns 1-8  
from the previous card.

Module 1 D Format 0 1  
9 10 11 12

# INTERIOR DAMAGE

ID-1

## CODES:

- (0) NO  
(1) YES  
(3) NO, and OCCUPANT CONTACT

- (4) YES, and OCCUPANT CONTACT  
(8) NOT APPLICABLE  
(9) UNKNOWN

	LEFT	RIGHT				
<b>SIDES</b>			<b>FRONT</b>			<b>INSTRUMENT PANEL</b>
FRONT DOOR	<u>0</u> 13	<u>1</u> 14	FOOT CONTROLS	<u>0</u> 45		UPPER PANEL
FRONT HARDWARE	<u>0</u> 15	<u>1</u> 16	IGNITION KEYS	<u>0</u> 46		MID PANEL
FRONT ARMREST	<u>0</u> 17	<u>1</u> 18	REAR VIEW MIRROR	<u>1</u> 47		LOWER PANEL
FRONT GLASS	<u>0</u> 19	<u>1</u> 20	SUNVISOR/FITTINGS	<u>0</u> 48		ASHTRAY
REAR DOOR AREA	<u>1</u> 21	<u>1</u> 22	(5) LEFT SIDE ONLY (6) RIGHT SIDE ONLY (7) BOTH SIDES			CONTROL KNOBS & LEVERS
REAR HARDWARE	<u>0</u> 23	<u>1</u> 24	WINDSHIELD TOP MOLDINGS	<u>1</u> 49		GLOVE COMPARTMENT AREA
REAR ARMREST	<u>1</u> 25	<u>1</u> 26	LEFT A-PILLAR (UPPER OR LOWER)	<u>0</u> 50		INSTRUMENTS
REAR GLASS	<u>1</u> 27	<u>1</u> 28	RIGHT A-PILLAR (UPPER OR LOWER)	<u>1</u> 51		PARKING BRAKE RELEASE
ROOF SIDE RAIL	<u>1</u> 29	<u>1</u> 30	CENTER CONSOLE	<u>8</u> 52		PARKING BRAKE PEDAL
B-PILLAR	<u>0</u> 31	<u>1</u> 32	TRANSMISSION SELECTOR LEVER	<u>0</u> 53		A/C OR UPPER VENT OUTLETS
C-PILLAR	<u>1</u> 33	<u>1</u> 34	RIM, HORN, SPOKE	<u>0</u> 54		HEATER OR A/C DUCTS
D-PILLAR	<u>0</u> 35	<u>0</u> 36				RADIO
HEADLINING	<u>1</u> 37	<u>1</u> 38				OTHER: * _____
ROOF STRUCTURE	<u>1</u> 39	<u>1</u> 40				
T-ROOF/SUN ROOF	<u>8</u> 41	<u>8</u> 42				
OTHER: * _____	<u>8</u> 43	<u>8</u> 44				
						<b>REAR</b>
						WINDOW
						WINDOW HEADER
						<b>CONSOLES</b>
						VERTICAL
						ROOF

\* MORE THAN ONE ITEM MAY BE NOTED.

Duplicate columns 1-8  
from the previous card.

Module S T Format 0 2  
9 10 11 12

## SEATS

ST-1

FRONT SEAT	DRIVER	PASSENGER	FRONT SEAT-BACK	DRIVER	PASSENGER
<b>TYPE OF FRONT SEAT</b> (00) NO SEAT (01) STANDARD BENCH (02) SPLIT BACK, 50-50 (03) SPLIT BACK, DRIVER WIDE (04) SPLIT BACK, PASS. WIDE (05) BUCKET (06) CAPTAIN'S CHAIR (07) INDIV. BENCH, 50-50 (08) INDIV. BENCH, DRIVER WIDE (09) INDIV. BENCH, PASS. WIDE (97) OTHER: _____ (99) UNKNOWN	05 13 14	05 15 16	<b>SEAT-BACK TYPE</b> (1) FORWARD FOLDING (2) RIGID (3) RECLINING (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN	3 30	3 31
<b>TYPE OF SEAT MOUNT</b> (1) STANDARD (2) PEDESTAL (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN	1 17	1 18	<b>SEAT-BACK LOCK TYPE</b> (0) NONE (1) MANUAL (2) INERTIA (3) POWER (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN	1 32	1 33
<b>SWIVEL MECHANISM EQUIPPED</b> (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	0 19	0 20	<b>LOCKS HELD</b> (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	1 34	1 35
<b>ORIGINAL EQUIPMENT SEATS</b> (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	1 21	1 22	<b>RECLINER MECHANISM HELD</b> (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	1 36	1 37
<b>CONTACT OF SEAT BY REAR OCCUPANT</b> (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	8 23	8 24	<b>HEAD RESTRAINT</b> <b>HEAD RESTRAINT TYPE</b> (0) NONE (1) ADJUSTABLE (2) INTEGRAL (3) NOT INTEGRAL, BUT CANNOT BE REMOVED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN	2 38	2 39
<b>FRONT SEAT DAMAGE</b> (0) NONE (1) BACKREST ONLY DAMAGED (2) CUSHION ONLY DAMAGED (3) BACKREST & CUSHION DAMAGED (8) NOT APPLICABLE (9) UNKNOWN	0 25	3 26	<b>REMOVED PRE-CRASH</b> (0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	8 40	8 41
<b>CENTER ARMREST DAMAGED</b> (0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED	0 27		<b>ADJUSTMENT AT CRASH</b> (1) UP (2) DOWN (8) NOT APPLICABLE (9) UNKNOWN	8 42	8 43
<b>FRONT SEAT ROTATION</b> (0) NONE APPARENT (1) FORWARD APPARENT (2) REARWARD APPARENT (3) LEFT APPARENT (4) RIGHT APPARENT (5) MULTIPLE ROTATIONS SPECIFY _____ (8) NOT APPLICABLE (9) UNKNOWN	0 28	3 29	<b>HEAD RESTRAINT DAMAGE</b> (0) NONE (1) DAMAGED BUT NOT SEPARATED (2) SEPARATED (8) NOT APPLICABLE (9) UNKNOWN	0 44	0 45



FRONT SEAT ADJUSTMENT		DRIVER	PASSENGER	SECOND SEAT (CONT.)	
SEAT ADJUSTMENT TYPE				CENTER ARMREST DAMAGED	
(0) NONE (RIGID) (1) MANUAL (2) POWER (7) OTHER: _____ (8) NOT APPLICABLE (NO SEAT) (9) UNKNOWN		<u>1</u> 46	<u>1</u> 47	(0) NO (1) YES (7) EQUIPPED, DAMAGE UNKNOWN (8) NOT APPLICABLE (NO CENTER ARMREST) (9) UNKNOWN IF EQUIPPED	
ADJUSTMENT PROVIDED		<u>1</u> 48	<u>1</u> 49	SECOND SEAT-BACK	
(1) 2-WAY (2) 4-WAY (3) 6-WAY (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN				LEFT	RIGHT
SEAT ADJUSTER DAMAGE				LOCKS	
(0) NONE (1) CHUCKING (FREE PLAY) (2) DEFORMED (RELEASED/JAMMED) (3) SEPARATED (7) OTHER: _____ (8) NOT APPLICABLE (9) UNKNOWN		<u>0</u> 50	<u>2</u> 51	FOR THE FOLLOWING, USE:	
SEAT ADJUSTER SEPARATION				(0) NO (1) YES (8) NOT APPLICABLE (9) UNKNOWN	
(0) NONE (1) SEPARATED AT FLOOR (2) SEPARATION OF ADJUSTER (3) SEPARATED AT SEAT (8) NOT APPLICABLE (9) UNKNOWN		<u>8</u> 52	<u>0</u> 53	LEFT OR CENTER, EQUIPPED	
PRE-CRASH POSITION				<u>1</u> 61	<u>0</u> 62
(1) FORWARD (2) MIDDLE (3) REARWARD (8) NOT APPLICABLE (9) UNKNOWN		<u>3</u> 54	<u>2</u> 55	LEFT OR CENTER, HELD	
				<u>1</u> 63	<u>8</u> 64
				(3) SEAT FOLDED DOWN	
				RIGHT, EQUIPPED	
				<u>0</u> 65	<u>1</u> 66
				RIGHT, HELD	
				<u>1</u> 67	<u>1</u> 68
				(3) SEAT FOLDED DOWN	
SECOND SEAT		LEFT	RIGHT	THIRD SEAT	
TYPE OF SECOND SEAT				EQUIPPED	
- (0) NONE (1) NON-FOLDING (2) FOLDING (3) CAPTAIN'S CHAIR (4) JUMP SEAT (5) INTEGRAL CHILD SEAT (6) LUGGAGE AREA ACCESS PANEL (9) UNKNOWN		<u>2</u> 56	<u>2</u> 57	<u>1</u> 69	<u>1</u> 70
SECOND SEAT DAMAGE				BACKREST DAMAGED	
(0) NONE (1) BACKREST ONLY (DAMAGED OR LOOSENED) (2) CUSHION ONLY (DAMAGED OR LOOSENED) (3) BACKREST & CUSHION (DAMAGED OR LOOSENED) (4) INTEGRAL CHILD SEAT (PRIORITY CODE) (5) LUGGAGE AREA ACCESS PANEL (DAMAGED OR LOOSENED) (8) NOT APPLICABLE (9) UNKNOWN		<u>1</u> 58	<u>0</u> 59	<u>0</u> 71	<u>0</u> 72
				CUSHION DAMAGED	
				<u>0</u> 73	<u>0</u> 74
				VEHICLE EQUIPPED WITH REAR HEAD RESTRAINTS	
				(0) NOT EQUIPPED (OR REMOVED) (1) EQUIPPED (2) EQUIPPED & DAMAGED (8) NOT APPLICABLE (NO REAR SEAT) (9) UNKNOWN	
				Applies to any rear-seat position	
				<u>1</u> 75	

Duplicate columns 1-8  
from the previous card.

Module A B Format 0 1  
9 10 11 12

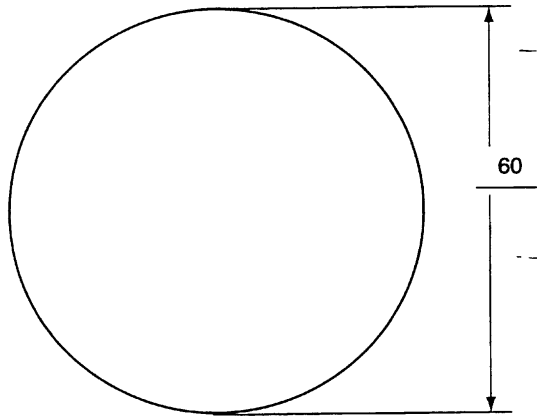
AIRBAG AB-1

<p>DRIVER SIDE</p> <p>LOCATION OF AIRBAG</p> <p>STEERING WHEEL</p> <p>EQUIPPED</p> <p>(0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>DEPLOYED</p> <p>(0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u> 13</p> <p><u>1</u> 14</p>	<p>PASSENGER SIDE</p> <p>LOCATION OF AIRBAG</p> <p>INSTRUMENT PANEL (GLOVE BOX)</p> <p>EQUIPPED</p> <p>(0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>DEPLOYED</p> <p>(0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u> 16</p> <p><u>1</u> 17</p>
<p>CONDITION OF AIRBAG</p> <p>STEERING WHEEL</p> <p>(0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION</p>	<p><u>0</u> 15</p>	<p>CONDITION OF AIRBAG</p> <p>INSTRUMENT PANEL (GLOVE BOX)</p> <p>(0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION</p>	<p><u>5</u> 18</p>
<p>DRIVER SIDE</p> <p>AIRBAG</p> <p>STEERING WHEEL</p> <p>TETHER</p> <p>(0) NO (1) YES (6) OTHER (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>MARKED BY CONTACT</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>0</u> 19</p> <p><u>0</u> 20</p>	<p>PASSENGER SIDE</p> <p>AIRBAG</p> <p>INSTRUMENT PANEL (GLOVE BOX)</p> <p>TETHER</p> <p>(0) NO (1) YES (6) OTHER (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>MARKED BY CONTACT</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u> 21</p> <p><u>0</u> 22</p>

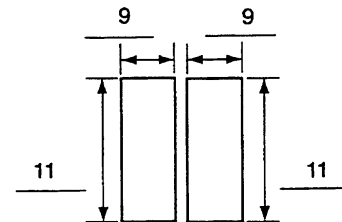
AIRBAG NUMBER ON DRIVER SIDE:

*[Redacted]* *7* *[Redacted]*  
*Town*

Driver Airbag



Driver Airbag Doors



I-Pattern

Vents: ☒ Y ☐ N  
 if yes, how many: 2  
 At 3 and 9 o'clock

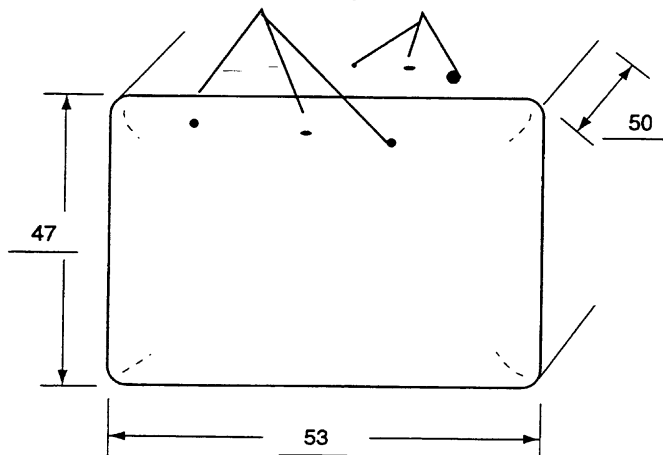
Tethers: Y ☒ N  
 if yes, how many: \_\_\_\_\_

AIRBAG NUMBER ON PASSENGER SIDE:

*No Number Found*

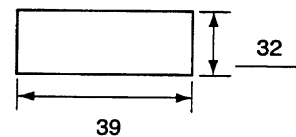
Passenger Airbag

Multiple small holes in airbag fabric from broken windshield glass



Passenger Airbag Door

Single Door



Vents: ☒ Y ☐ N  
 if yes, how many: 2  
 at 3 and 9 o'clock

Tethers: ☒ Y ☐ N  
 if yes, how many: 2

NOTE TO THE INVESTIGATOR:

THE FOLLOWING TWO SECTIONS,  
OCCUPANT INFORMATION AND INJURY CLASSIFICATION,  
ARE TO BE FILLED IN  
FOR EACH CASE VEHICLE OCCUPANT,  
WHETHER INJURED OR NOT.

IF THERE IS MORE THAN ONE OCCUPANT,  
USE ADDITIONAL COPIES  
OF PAGES OC-1, OC-2, OC-3,  
AND IC-2 TO DESCRIBE THEM  
AND ATTACH THE COPIES TO THIS REPORT.

Duplicate columns 1-8  
from the previous card.

Module 0 C Format 0 2  
9 10 11 12

# OCCUPANT INFORMATION OC-1

## OCCUPANT IDENTIFICATION

OCCUPANT NUMBER

01  
13 14

ROLE OF OCCUPANT AT 1ST IMPACT

- (1) MOTOR VEHICLE DRIVER
- (2) MOTOR VEHICLE PASSENGER  
(NOT DRIVER)
- (9) UNKNOWN

1  
15

## OCCUPANT POSITION

ROW LOCATION

- (1) FRONT
- (2) SECOND
- (3) THIRD
- (4) FOURTH
- (7) OTHER: \_\_\_\_\_
- (8) EXTERNAL TO PASSENGER  
COMPARTMENT (E.G. BED OF PICKUP)
- (9) UNKNOWN

1  
16

LATERAL LOCATION

- (1) LEFT
- (2) LEFT CENTER
- (3) CENTER
- (4) RIGHT CENTER
- (5) RIGHT
- (6) ALL (LYING ON SEAT)
- (8) EXTERNAL TO PASSENGER  
COMPARTMENT
- (9) UNKNOWN

1  
17

POSTURE

- (10) SITTING ON SEAT
- (11) SITTING ON SEAT IN ABNORMAL  
POSITION (E.G. FEET ON DASH,  
SIDEWAYS)
- (12) SITTING ON CONSOLE
- (20) ON LAP OR IN ARMS
- (30) STANDING ON SEAT
- (40) STANDING ON FLOOR
- (47) STANDING, EXTERNAL TO  
PASSENGER COMPARTMENT
- (50) IN BASSINET
- (60) IN CHILD SEAT
- (65) IN CHILD HARNESS
- (70) LYING ON SEAT
- (80) LYING/SITTING ON PASSENGER  
FLOOR
- (83) LYING/SITTING ON OTHER  
OBJECT IN PASSENGER  
COMPARTMENT: \_\_\_\_\_
- (85) ON CARGO FLOOR/FOLDED  
SEAT-BACK
- (87) LYING/SITTING, EXTERNAL TO  
PASSENGER COMPARTMENT
- (97) OTHER: \_\_\_\_\_
- (99) UNKNOWN

10  
18 19

## PHYSICAL DESCRIPTION

AGE IN YEARS

- (00) LESS THAN 1 YEAR
- (98) 98 YEARS OR OLDER
- (99) UNKNOWN

18  
20 21

AGE IN MONTHS

- (00) LESS THAN 1 MONTH
- (25) 25 MONTHS OR OLDER
- (99) UNKNOWN

25  
22 23

MASS (kg)

- (999) UNKNOWN

(160 lb)

073  
24 25 26

HEIGHT (cm)

- (999) UNKNOWN

(5 ft, 11 in)

180  
27 28 29

SEX

- (1) MALE
- (2) FEMALE
- (9) UNKNOWN

1  
30

## MEDICAL CONDITIONS

TREATMENT/MORTALITY

- (00) NONE
- (01) FIRST AID AT SCENE
- (02) TREATED AT HOSPITAL/CLINIC  
BUT NOT ADMITTED
- (03) HOSPITALIZED FOR OBSERVATION  
LESS THAN 24 HOURS
- (04) HOSPITALIZED OVER 24 HOURS  
OR FOR SIGNIFICANT TREATMENT
- (05) FATAL, DEAD AT SCENE
- (06) FATAL, DOA
- (07) FATAL, DEAD WITHIN 24 HOURS
- (08) FATAL, DEAD 24 HOURS TO  
31 DAYS LATER
- (09) FATAL, DEAD 31 DAYS TO  
1 YEAR LATER
- (10) FATAL DEAD WITHIN UNKNOWN  
PERIOD
- (99) UNKNOWN

01  
31 32

INJURY SEVERITY SCORE (ISS)

- (99) UNKNOWN

01  
33 34

NON-IMPACT MED. CONDITIONS

- (0) NONE
- (1) YES, TIME & TYPE UNKNOWN
- (2) PRE-CRASH FATAL (CLINICAL  
DEATH AT WHEEL)
- (3) PRE-CRASH NON-FATAL (E.G.  
PRIOR INJURY, STROKE)
- (4) PREGNANT
- (5) POST-CRASH FATAL (DROWNING)
- (6) POST-CRASH NON-FATAL INJURY
- (7) OTHER: \_\_\_\_\_
- (8) COMBINATION OF ABOVE  
(CIRCLE EACH)
- (9) UNKNOWN

0  
35

46

# OCCUPANT INFORMATION OC-3

## OCCUPANT EYEWEAR

- (0) NONE
- (1) GLASSES
- (2) CONTACTS
- (3) BOTH GLASSES AND CONTACTS
- (4) OTHER \_\_\_\_\_
- (8) NOT APPLICABLE
- (9) UNKNOWN

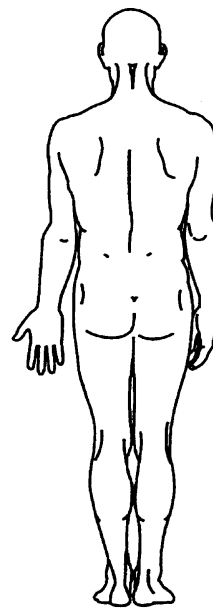
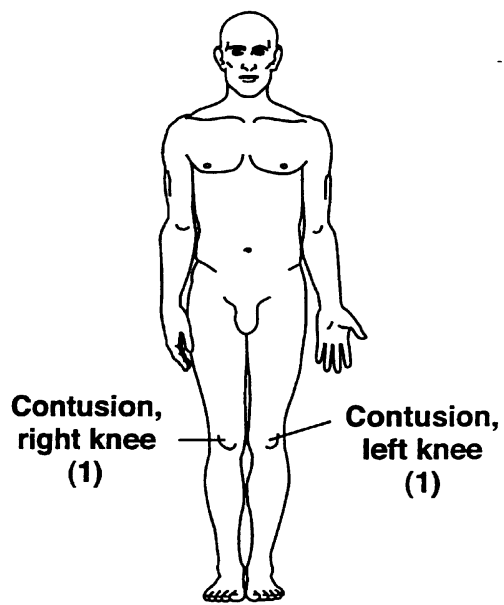
0  
47

## SOURCE OF INFORMATION

- (0) INTERVIEW
- (1) HOSPITAL
- (2) AUTOPSY
- (3) POLICE
- (4) OTHER \_\_\_\_\_
- (5) LAY CORONER/EXTERNAL EXAM
- (7) COMBINATION OF ABOVE (CIRCLE)
- (8) NOT APPLICABLE
- (9) UNKNOWN

7  
48

INDICATE LOCATION OF INJURIES.





INJURY CLASSIFICATION IC-1

**NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.**

## OCCUPANT INJURY CLASSIFICATION

[illegible]

**NOTE: USE ADDITIONAL PAGES IF NECESSARY.**

## INJURY CLASSIFICATION IC-2

## CODES FOR AREAS OF POSSIBLE OCCUPANT CONTACT

## FRONT OF PASSENGER COMPARTMENT

- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (12) WINDSHIELD
- (05) INSTRUMENT PANEL (*SPECIFIC AREA UNKNOWN*)
- (54) UPPER INSTRUMENT PANEL (X)
- (55) MIDDLE INSTRUMENT PANEL (Y)
- (56) LOWER INSTRUMENT PANEL (Z)
- (81) ASH TRAY (*INSTRUMENT PANEL*)
- (02) GLOVE COMPARTMENT AREA
- (47) AIRBAG (*ACRS*) COMPARTMENT DOOR/COVER
- (57) BENEATH INSTRUMENT PANEL
- (53) PARCEL TRAY
- (48) KNEE RESTRAINT
- (86) VERTICAL CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (09) STEERING ASSEMBLY (*SPECIFIC AREA UNKNOWN*)
- (65) STEERING WHEEL
- (66) STEERING WHEEL COLUMN
- (59) TRANSMISSION LEVER ON COLUMN
- (03) HARDWARE ITEM (*SPECIFIC AREA UNKNOWN*)
- (82) INSTRUMENT(S)
- (83) CONTROL KNOB(S) & LEVER(S) (*FRONT*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (67) IGNITION KEY
- (06) MIRROR
- (04) HEATER OR AIR CONDITIONING DUCTS
- (01) AIR CONDITIONING OR VENTILATION OUTLET(S)
- (08) RADIO (*BUILT IN*)
- (58) ADD-ON TAPE DECK, RADIO, A/C
- (68) ROOF MOUNTED CONTROLS/CONSOLES

## REAR

- (88) SURFACE OF REAR INTERIOR
- (23) REAR WINDOW
- (39) REAR WINDOW HEADER
- (50) REAR SEAT CUSHION & BACK

## INTERIOR-GENERAL

- (11) TRANSMISSION SELECTION LEVER (*LOCATION UNK.*)
- (59) TRANSMISSION LEVER ON STEERING COLUMN
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (07) PARKING BRAKE HANDLE (*LOCATION UNKNOWN*)
- (84) PARKING BRAKE HANDLE IN FRONT
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (29) FRONT SEAT-BACK(S)
- (51) FRONT SEAT CUSHION
- (50) REAR SEAT CUSHION & BACK
- (49) ARMREST ON SEAT
- (89) UNDER SEAT BOTTOM
- (33) RESTRAINT SYSTEM HARDWARE
- (34) RESTRAINT SYSTEM WEBBING
- (87) AIR CUSHION SKIN (*AIRBAG*)
- (47) AIRBAG (*ACRS*) COMPARTMENT DOOR/COVER
- (46) AIRBAG GAS
- (48) KNEE RESTRAINT
- (30) HEAD RESTRAINT
- (42) CHILD SEAT RESTRAINTS
- (43) CHILD SEAT
- (31) INTERIOR LOOSE OBJECT
- (32) OTHER OCCUPANT(S)
- (52) INTERNAL FLYING GLASS (*FROM ANY SOURCE*)
- (41) UNKNOWN INTERIOR SURFACE

## SIDES

- (20) SURFACE OF SIDE INTERIOR
- (19) HARDWARE ON SIDE OR DOOR
- (13) ARMREST ON SIDE OR DOOR
- (24) COAT HOOK
- (22) WINDOW GLASS (*SIDE*)
- (21) WINDOW FRAMES (*SIDE*)
- (26) ROOF SIDE RAIL
- (14) A-PILLAR
- (15) B-PILLAR
- (16) C-PILLAR
- (17) D-PILLAR

## -FLOOR

- (40) FLOOR
- (27) CONSOLE ON FLOOR OR BETWEEN SEATS
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (*INCL. PARKING BRAKE PEDAL*)
- (91) KICKPANEL

## ROOF

- (25) ROOF OR CONVERTIBLE TOP
- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (26) ROOF SIDE RAIL
- (24) COAT HOOK
- (18) DOME LIGHT
- (39) BACKLIGHT HEADER
- (68) ROOF MOUNTED CONTROLS/CONSOLE
- (69) ROLL BAR

## EXTERIOR SURFACE OF CASE VEHICLE

- (37) OUTSIDE SURFACE OF CASE VEHICLE (*SPECIFIC AREA UNKNOWN*)
- (35) HOOD OF CASE VEHICLE
- (60) EXTERIOR OF CASE VEHICLE (*E.G. OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (62) EXTERIOR SIDE ROOF RAIL OF CASE VEHICLE
- (63) TRUNK LID OF CASE VEHICLE
- (64) TIRES OF CASE VEHICLE

## BEYOND CASE VEHICLE BOUNDARY

- (36) AREA EXTERIOR TO CAR (*SPECIFIC AREA UNK.*)
- (70) HOOD OF OTHER VEHICLE
- (71) OTHER VEHICLE EXTERIOR HARDWARE (*E.G. OUTSIDE MIRRORS, ANTENNA, TRIM*)
- (73) EXTERIOR SIDE ROOF RAIL OF OTHER VEHICLE
- (74) HEADLIGHT OR FRONT GRILL OF OTHER VEH.
- (75) TRUNK OF OTHER VEHICLE
- (76) OUTSIDE SURFACE OF OTHER VEHICLE
- (77) TIRES OF OTHER VEHICLE
- (78) GROUND
- (79) WATER
- (80) EXTERIOR OBJECT (*NOT VEHICLE, GROUND, OR WATER. PLEASE DESCRIBE.*)

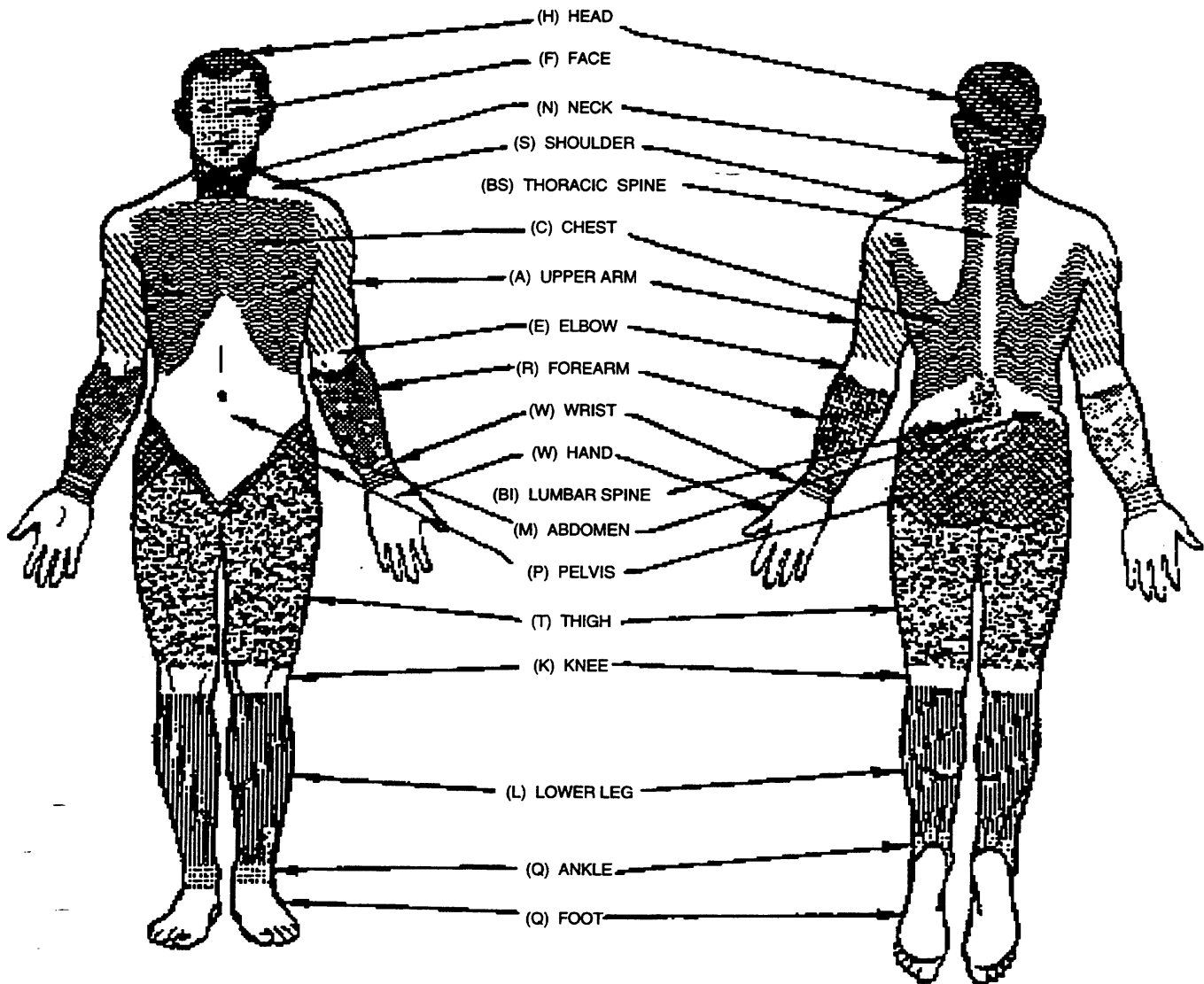
## PENETRATING OBJECTS

- (61) OTHER VEHICLE
- (72) OBJECTS (*DESCRIBE*)

## MISCELLANEOUS

- (00) NO CONTACT (*INVALID FIELD FORM CODE*)
- (38) OTHER (*E.G. FIRE. DESCRIBE*)
- (90) SPARE TIRE
- (96) INDUCED
- (97) EJECTED, UNKNOWN CONTACT
- (98) IMPACT FORCE, "WHIPLASH", HYPEREXTENSION/COMPRESSION
- (99) UNKNOWN AREA OF CONTACT

THE FIGURE BELOW  
IS AN EXPLANATION OF THE BODY REGION CODES  
LISTED ON PAGE IC - 4.



## INJURY CLASSIFICATION IC-4

## CODES FOR OCCUPANT INJURY CLASSIFICATION (OIC)

**1 BODY REGION**

(H) HEAD/SKULL  
 (F) FACE  
 (N) NECK  
 (S) SHOULDER  
 (X) UPPER EXTREMITIES  
 (A) ARM (UPPER)  
 (E) ELBOW  
 (R) FOREARM  
 (W) WRIST/HAND  
 (C) CHEST  
 (M) ABDOMEN  
 (B) BACK  
 (P) PELVIC/HIP  
 (Y) LOWER EXTREMITIES  
 (T) THIGH  
 (K) KNEE  
 (L) LEG (LOWER)  
 (Q) ANKLE/FOOT  
 (O) WHOLE BODY  
 (U) UNKNOWN

**3 LESION**

(L) LACERATION  
 (C) CONTUSION  
 (A) ABRASION  
 (F) FRACTURE  
 (P) PERFORATION, PUNCTURE  
 (K) CONCUSSION  
 (V) AVULSION  
 (R) RUPTURE  
 (S) SPRAIN  
 (D) DISLOCATION  
 (N) CRUSH  
 (M) AMPUTATION  
 (B) BURN  
 (G) DETACHMENT, SEPARATION  
 (Z) FRACTURE AND DISLOCATION  
 (T) STRAIN  
 (E) TOTAL SEVERANCE, TRANSECTION  
 (O) OTHER  
 (U) UNKNOWN

**4 SYSTEM/ORGAN**

(S) SKELETAL  
 (V) VERTEBRAE  
 (J) JOINTS  
 (D) DIGESTIVE  
 (L) LIVER  
 (N) NERVOUS SYSTEM  
 (B) BRAIN  
 (C) SPINAL CORD  
 (E) EARS  
 (O) EYES  
 (A) ARTERIES  
 (H) HEART  
 (Q) SPLEEN  
 (G) UROGENITAL  
 (K) KIDNEYS  
 (R) RESPIRATORY  
 (P) PULMONARY/LUNGS  
 (M) MUSCLES  
 (T) THYROID, OTHER ENDOCRINE GLAND  
 (I) INTEGUMENTARY (SKIN)  
 (W) ALL SYSTEMS IN REGION  
 (U) UNKNOWN

**2 ASPECT**

(R) RIGHT  
 (L) LEFT  
 (B) BILATERAL  
 (C) CENTRAL  
 (A) ANTERIOR/FRONT  
 (P) POSTERIOR/BACK  
 (S) SUPERIOR/UPPER  
 (I) INFERIOR/LOWER  
 (W) WHOLE REGION  
 (U) UNKNOWN

BODY REGION	ASPECT	LESION	SYSTEM/ORGAN	SEVERITY
1	2	3	4	5

**5 SEVERITY  
(OR "AIS", ABBREVIATED INJURY SCALE)**

(0) NONE  
 (1) MINOR  
 (2) MODERATE  
 (3) SERIOUS  
 (4) SEVERE  
 (5) CRITICAL  
 (6) MAXIMUM  
 (9) UNKNOWN

Duplicate columns 1-8  
from the previous card.

Module Q C Format 0 2  
9 10 11 12

# OCCUPANT INFORMATION OC-1

## OCCUPANT IDENTIFICATION

OCCUPANT NUMBER

02  
13 14

ROLE OF OCCUPANT AT 1ST IMPACT

- (1) MOTOR VEHICLE DRIVER  
(2) MOTOR VEHICLE PASSENGER  
(NOT DRIVER)  
(9) UNKNOWN

2  
15

## PHYSICAL DESCRIPTION

AGE IN YEARS

- (00) LESS THAN 1 YEAR  
(98) 98 YEARS OR OLDER  
(99) UNKNOWN

17  
20 21

AGE IN MONTHS

- (00) LESS THAN 1 MONTH  
(25) 25 MONTHS OR OLDER  
(99) UNKNOWN

25  
22 23

MASS (kg)

- (999) UNKNOWN

(164 lb)

074  
24 25 26

HEIGHT (cm)

- (999) UNKNOWN

(5ft, 5in)

165  
27 28 29

SEX

- (1) MALE  
(2) FEMALE  
(9) UNKNOWN

1  
30

## OCCUPANT POSITION

ROW LOCATION

- (1) FRONT  
(2) SECOND  
(3) THIRD  
(4) FOURTH  
(7) OTHER: \_\_\_\_\_  
(8) EXTERNAL TO PASSENGER  
COMPARTMENT (E.G. BED OF PICKUP)  
(9) UNKNOWN

1  
16

LATERAL LOCATION

- (1) LEFT  
(2) LEFT CENTER  
(3) CENTER  
(4) RIGHT CENTER  
(5) RIGHT  
(6) ALL (LYING ON SEAT)  
(8) EXTERNAL TO PASSENGER  
COMPARTMENT  
(9) UNKNOWN

5  
17

POSTURE

- (10) SITTING ON SEAT  
(11) SITTING ON SEAT IN ABNORMAL  
POSITION (E.G. FEET ON DASH,  
SIDEWAYS)  
(12) SITTING ON CONSOLE  
(20) ON LAP OR IN ARMS  
(30) STANDING ON SEAT  
(40) STANDING ON FLOOR  
(47) STANDING, EXTERNAL TO  
PASSENGER COMPARTMENT  
(50) IN BASSINET  
(60) IN CHILD SEAT  
(65) IN CHILD HARNESS  
(70) LYING ON SEAT  
(80) LYING/SITTING ON PASSENGER  
FLOOR  
(83) LYING/SITTING ON OTHER  
OBJECT IN PASSENGER  
COMPARTMENT: \_\_\_\_\_  
(85) ON CARGO FLOOR/FOLDED  
SEAT-BACK  
(87) LYING/SITTING, EXTERNAL TO  
PASSENGER COMPARTMENT  
(97) OTHER: \_\_\_\_\_  
(99) UNKNOWN

11  
18 19

## MEDICAL CONDITIONS

TREATMENT/MORTALITY

- (00) NONE  
(01) FIRST AID AT SCENE  
(02) TREATED AT HOSPITAL/CLINIC  
BUT NOT ADMITTED  
(03) HOSPITALIZED FOR OBSERVATION  
LESS THAN 24 HOURS  
(04) HOSPITALIZED OVER 24 HOURS  
OR FOR SIGNIFICANT TREATMENT  
(05) FATAL, DEAD AT SCENE  
(06) FATAL, DOA  
(07) FATAL, DEAD WITHIN 24 HOURS  
(08) FATAL, DEAD 24 HOURS TO  
31 DAYS LATER  
(09) FATAL, DEAD 31 DAYS TO  
1 YEAR LATER  
(10) FATAL DEAD WITHIN UNKNOWN  
PERIOD  
(99) UNKNOWN

04  
31 32

INJURY SEVERITY SCORE (ISS)

- (99) UNKNOWN

22  
33 34

NON-IMPACT MED. CONDITIONS

- (0) NONE  
(1) YES, TIME & TYPE UNKNOWN  
(2) PRE-CRASH FATAL (CLINICAL  
DEATH AT WHEEL)  
(3) PRE-CRASH NON-FATAL (E.G.  
PRIOR INJURY, STROKE)  
(4) PREGNANT  
(5) POST-CRASH FATAL (DROWNING)  
(6) POST-CRASH NON-FATAL INJURY  
(7) OTHER: \_\_\_\_\_  
(8) COMBINATION OF ABOVE  
(CIRCLE EACH)  
(9) UNKNOWN

0  
35

# OCCUPANT INFORMATION OC-2

<p><b>MEDICAL CONDITIONS (CONT.)</b></p> <p><b>POLICE INJURY SEVERITY CODE FOR THIS OCCUPANT</b></p> <p>(0) O - NO INJURY          (1) C - POSSIBLE INJURY          (2) B - NON-INCAPACITATING          (3) A - INCAPACITATING INJURY          (4) K - FATAL          (5) INJURED, SEVERITY UNKNOWN          (6) DIED PRIOR TO IMPACT          (7) NON-FATAL INJURY, SEVERITY UNKNOWN          (9) UNKNOWN</p>	<p><u>2</u> 36</p>	<p><b>CHILD SEAT TYPE</b></p> <p>(00) NONE USED          (01) YES, USED          (02) INTEGRAL, Chrysler Mini-van          (88) NOT APPLICABLE (ADULT OR OLDER CHILD)          (99) UNKNOWN</p> <p><b>CHILD SEAT MAKE/MODEL</b></p> <p>_____          _____          _____</p>	<p><u>8 8</u> 41 42</p>
<p><b>RESTRAINT SYSTEM</b></p> <p><b>ACTIVE RESTRAINT SYSTEM</b></p> <p>(0) NONE          (1) LAP BELT          (2) SHOULDER HARNESS ONLY          (3) BOTH LAP BELT &amp; SHOULDER HARNESS          (9) UNKNOWN</p> <p><b>ACTIVE RESTRAINT SYSTEM USAGE</b></p> <p>(0) NONE (AVAILABLE BUT NOT USED)          (1) LAP BELT ONLY          (2) SHOULDER HARNESS ONLY          (3) BOTH LAP BELT &amp; SHOULDER HARNESS          (7) IMPROPER USAGE          (8) NOT APPLICABLE (NONE AVAILABLE)          (9) UNKNOWN</p> <p><b>PASSIVE RESTRAINT SYSTEM</b></p> <p>(0) NONE          (1) AIRBAG INSTALLED          (2) PASSIVE UPPER TORSO WITH KNEE BOLSTERS          (3) PASSIVE UPPER TORSO WITHOUT KNEE BOLSTERS          (4) PASSIVE LAP &amp; UPPER TORSO          (5) AIRBAG INSTALLED &amp; PASSIVE RESTRAINT          (7) OTHER: _____          (9) UNKNOWN</p> <p><b>PASSIVE RESTRAINT SYSTEM USAGE</b></p> <p>(0) SYSTEM DEFEATED          (1) AIRBAG NOT DEPLOYED          (2) AIRBAG DEPLOYED          (3) AIRBAG NOT REINSTALLED          (4) PASSIVE UPPER TORSO USED          (5) PASSIVE LAP &amp; UPPER TORSO USED          (6) SYSTEM USED IN MANUAL MODE          (7) IMPROPER USAGE          (8) NOT APPLICABLE (NOT ORIGINALLY EQUIPPED)          (9) UNKNOWN</p>	<p><u>3</u> 37</p> <p><u>0</u> 38</p> <p><u>1</u> 39</p> <p><u>2</u> 40</p>	<p><b>EJECTION</b></p> <p><b>DEGREE OF EJECTION</b></p> <p>(0) NONE          (1) PARTIAL          (2) COMPLETE          (7) EJECTED, DEGREE UNKNOWN          (9) UNKNOWN IF EJECTED</p> <p><b>AREA OF EJECTION</b></p> <p>(01) WINDOW, LEFT SIDE          (02) WINDOW, RIGHT SIDE          (03) WINDOW, REAR          (04) DOOR, LEFT SIDE          (05) DOOR, RIGHT SIDE          (06) DOOR, REAR OR TAILGATE          (07) WINDSHIELD          (08) ROOF OR OPEN CONVERTIBLE OR FROM EXTERNAL AREA          (96) EJECTED AREA UNKNOWN          (97) OTHER AREA: _____          (98) NOT APPLICABLE (NOT EJECTED)          (99) UNKNOWN IF EJECTED</p> <p><b>IF OCCUPANT WAS EJECTED, DESCRIBE IN DETAIL BELOW:</b></p> <p>_____          _____          _____          _____</p>	<p><u>0</u> 43</p> <p><u>9 8</u> 44 45</p>
		<p><b>HEAD RESTRAINT</b></p> <p><b>HEAD RESTRAINT AVAILABLE FOR THIS POSITION</b></p> <p>(0) NOT EQUIPPED OR REMOVED          (1) EQUIPPED          (9) UNKNOWN</p>	<p><u>1</u> 46</p>

# OCCUPANT INFORMATION OC-3

## OCCUPANT EYEWEAR

- (0) NONE
- (1) GLASSES
- (2) CONTACTS
- (3) BOTH GLASSES AND CONTACTS
- (4) OTHER \_\_\_\_\_
- (8) NOT APPLICABLE
- (9) UNKNOWN

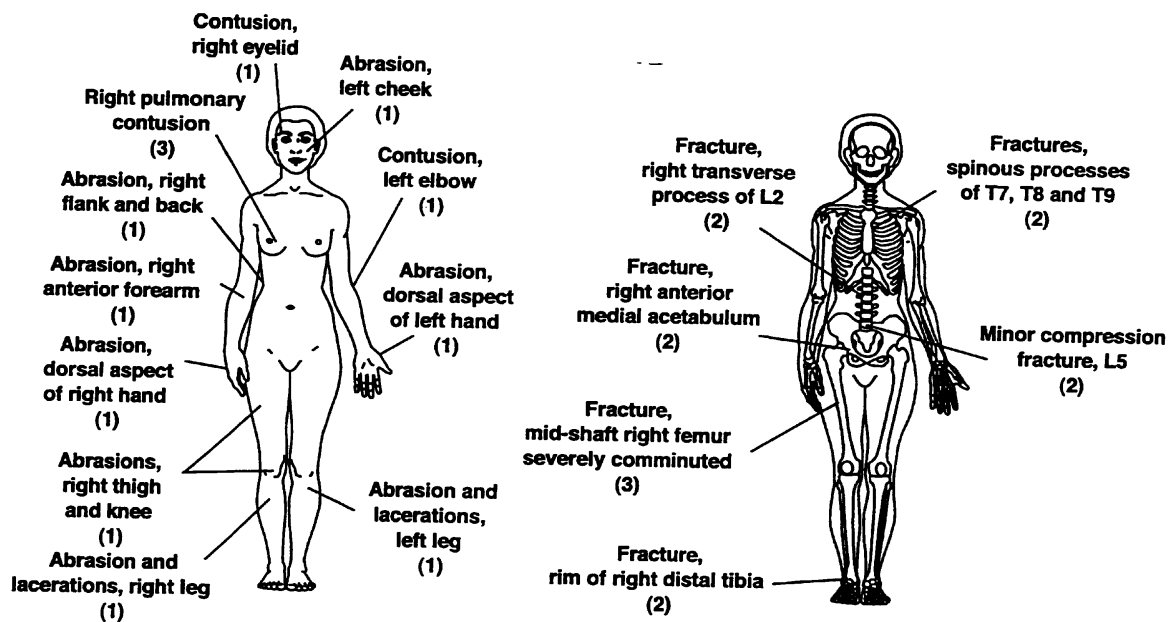
0  
47

## SOURCE OF INFORMATION

- (0) INTERVIEW
- (1) HOSPITAL
- (2) AUTOPSY
- (3) POLICE
- (4) OTHER \_\_\_\_\_
- (5) LAY CORONER/EXTERNAL EXAM
- (7) COMBINATION OF ABOVE (CIRCLE)
- (8) NOT APPLICABLE
- (9) UNKNOWN

7  
48

INDICATE LOCATION OF INJURIES.





**NOTE:** Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

## OCCUPANT INJURY CLASSIFICATION

[illegible]

**NOTE: USE ADDITIONAL PAGES IF NECESSARY.**

## CODES FOR AREAS OF POSSIBLE OCCUPANT CONTACT

## FRONT OF PASSENGER COMPARTMENT

- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (12) WINDSHIELD
- (05) INSTRUMENT PANEL (SPECIFIC AREA UNKNOWN)
- (54) UPPER INSTRUMENT PANEL (X)
- (55) MIDDLE INSTRUMENT PANEL (Y)
- (56) LOWER INSTRUMENT PANEL (Z)
- (81) ASH TRAY (INSTRUMENT PANEL)
- (02) GLOVE COMPARTMENT AREA
- (47) AIRBAG (ACRS) COMPARTMENT DOOR/COVER
- (57) BENEATH INSTRUMENT PANEL
- (53) PARCEL TRAY
- (48) KNEE RESTRAINT
- (86) VERTICAL CONSOLE
- (28) FOOT CONTROLS (INCL. PARKING BRAKE PEDAL)
- (09) STEERING ASSEMBLY (SPECIFIC AREA UNKNOWN)
- (65) STEERING WHEEL
- (66) STEERING WHEEL COLUMN
- (59) TRANSMISSION LEVER ON COLUMN
- (03) HARDWARE ITEM (SPECIFIC AREA UNKNOWN)
- (82) INSTRUMENT(S)
- (83) CONTROL KNOB(S) & LEVER(S) (FRONT)
- (84) PARKING BRAKE HANDLE IN FRONT
- (67) IGNITION KEY
- (06) MIRROR
- (04) HEATER OR AIR CONDITIONING DUCTS
- (01) AIR CONDITIONING OR VENTILATION OUTLET(S)
- (08) RADIO (BUILT IN)
- (58) ADD-ON TAPE DECK, RADIO, A/C
- (68) ROOF MOUNTED CONTROLS/CONSOLES

## REAR

- (88) SURFACE OF REAR INTERIOR
- (23) REAR WINDOW
- (39) REAR WINDOW HEADER
- (50) REAR SEAT CUSHION & BACK

## INTERIOR-GENERAL

- (11) TRANSMISSION SELECTION LEVER (LOCATION UNK.)
- (59) TRANSMISSION LEVER ON STEERING COLUMN
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (07) PARKING BRAKE HANDLE (LOCATION UNKNOWN)
- (84) PARKING BRAKE HANDLE IN FRONT
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (INCL. PARKING BRAKE PEDAL)
- (29) FRONT SEAT-BACK(S)
- (51) FRONT SEAT CUSHION
- (50) REAR SEAT CUSHION & BACK
- (49) ARMREST ON SEAT
- (89) UNDER SEAT BOTTOM
- (33) RESTRAINT SYSTEM HARDWARE
- (34) RESTRAINT SYSTEM WEBBING
- (87) AIR CUSHION SKIN (AIRBAG)
- (47) AIRBAG (ACRS) COMPARTMENT DOOR/COVER
- (46) AIRBAG GAS
- (48) KNEE RESTRAINT
- (30) HEAD RESTRAINT
- (42) CHILD SEAT RESTRAINTS
- (43) CHILD SEAT
- (31) INTERIOR LOOSE OBJECT
- (32) OTHER OCCUPANT(S)
- (52) INTERNAL FLYING GLASS (FROM ANY SOURCE)
- (41) UNKNOWN INTERIOR SURFACE

## SIDES

- (20) SURFACE OF SIDE INTERIOR
- (19) HARDWARE ON SIDE OR DOOR
- (13) ARMREST ON SIDE OR DOOR
- (24) COAT HOOK
- (22) WINDOW GLASS (SIDE)
- (21) WINDOW FRAMES (SIDE)
- (26) ROOF SIDE RAIL
- (14) A-PILLAR
- (15) B-PILLAR
- (16) C-PILLAR
- (17) D-PILLAR

## FLOOR

- (40) FLOOR
- (27) CONSOLE ON FLOOR OR BETWEEN SEATS
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (INCL. PARKING BRAKE PEDAL)
- (91) KICKPANEL

## ROOF

- (25) ROOF OR CONVERTIBLE TOP
- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (26) ROOF SIDE RAIL
- (24) COAT HOOK
- (18) DOME LIGHT
- (39) BACKLIGHT HEADER
- (68) ROOF MOUNTED CONTROLS/CONSOLE
- (69) ROLL BAR

## EXTERIOR SURFACE OF CASE VEHICLE

- (37) OUTSIDE SURFACE OF CASE VEHICLE (SPECIFIC AREA UNKNOWN)
- (35) HOOD OF CASE VEHICLE
- (60) EXTERIOR OF CASE VEHICLE (E.G. OUTSIDE MIRRORS, ANTENNA, TRIM)
- (62) EXTERIOR SIDE ROOF RAIL OF CASE VEHICLE
- (63) TRUNK LID OF CASE VEHICLE
- (64) TIRES OF CASE VEHICLE

## BEYOND CASE VEHICLE BOUNDARY

- (36) AREA EXTERIOR TO CAR (SPECIFIC AREA UNK.)
- (70) HOOD OF OTHER VEHICLE
- (71) OTHER VEHICLE EXTERIOR HARDWARE (E.G. OUTSIDE MIRRORS, ANTENNA, TRIM)
- (73) EXTERIOR SIDE ROOF RAIL OF OTHER VEHICLE
- (74) HEADLIGHT OR FRONT GRILL OF OTHER VEH.
- (75) TRUNK OF OTHER VEHICLE
- (76) OUTSIDE SURFACE OF OTHER VEHICLE
- (77) TIRES OF OTHER VEHICLE
- (78) GROUND
- (79) WATER
- (80) EXTERIOR OBJECT (NOT VEHICLE, GROUND, OR WATER. PLEASE DESCRIBE.)

## PENETRATING OBJECTS

- (61) OTHER VEHICLE
- (72) OBJECTS (DESCRIBE)

## MISCELLANEOUS

- (00) NO CONTACT (INVALID FIELD FORM CODE)
- (38) OTHER (E.G. FIRE. DESCRIBE) *RE OCCUPANTS OWN LEFT LEG*
- (90) SPARE TIRE
- (96) INDUCED
- (97) EJECTED, UNKNOWN CONTACT
- (98) IMPACT FORCE, "WHIPLASH", HYPEREXTENSION/COMPRESSION
- (99) UNKNOWN AREA OF CONTACT

Duplicate columns 1-8  
from the previous card.

Module 1 C Format 0 1  
9 10 11 12

INJURY CLASSIFICATION IC-1

NOTE: Each line in the table below is a separate record (card).  
Duplicate columns 1 - 12 for each completed line.

# OCCUPANT INJURY CLASSIFICATION

					PRIMARY OIC					ASSOCIATED OIC					COMMENTS
OCCUPANT NUMBER	INJURY NUMBER	PLACE CONTACTS IN ORDER OF PROBABILITY (HORIZONTALLY). START WITH MOST PROBABLE IN 1ST CONTACT AREA COLUMN.		AREA(S) OF POSSIBLE CONTACT 1ST 2ND	BODY REGION 1	ASPECT 2	LESION 3	SYSTEM/ORGAN 4	SEVERITY 5	BODY REGION 1	ASPECT 2	LESION 3	SYSTEM/ORGAN 4	SEVERITY 5	
		13-14	15-16												
<u>02</u>	<u>01</u>	<u>87</u>	<u>---</u>		<u>F</u>	<u>R</u>	<u>C</u>	<u>I</u>	<u>1</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	
	<u>02</u>	<u>87</u>	<u>---</u>		<u>F</u>	<u>L</u>	<u>A</u>	<u>I</u>	<u>1</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	
	<u>03</u>	<u>20</u>	<u>---</u>		<u>C</u>	<u>R</u>	<u>C</u>	<u>P</u>	<u>3</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	
	<u>04</u>	<u>38</u>	<u>---</u>	Head own Left Leg	<u>Q</u>	<u>R</u>	<u>F</u>	<u>S</u>	<u>2</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	
	<u>05</u>	<u>98</u>	<u>---</u>		<u>B</u>	<u>S</u>	<u>F</u>	<u>S</u>	<u>2</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	T7
	<u>06</u>	<u>98</u>	<u>---</u>		<u>B</u>	<u>S</u>	<u>F</u>	<u>S</u>	<u>2</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	T8
	<u>07</u>	<u>98</u>	<u>---</u>		<u>B</u>	<u>S</u>	<u>F</u>	<u>S</u>	<u>2</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	T9
	<u>08</u>	<u>98</u>	<u>---</u>		<u>B</u>	<u>I</u>	<u>F</u>	<u>S</u>	<u>2</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	L2
	<u>09</u>	<u>02</u>	<u>---</u>		<u>E</u>	<u>L</u>	<u>C</u>	<u>I</u>	<u>1</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	
	<u>10</u>	<u>99</u>	<u>---</u>		<u>R</u>	<u>R</u>	<u>A</u>	<u>I</u>	<u>1</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	
	<u>11</u>	<u>29</u>	<u>51</u>		<u>B</u>	<u>I</u>	<u>A</u>	<u>I</u>	<u>1</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	
	<u>12</u>	<u>29</u>	<u>51</u>		<u>R</u>	<u>R</u>	<u>A</u>	<u>I</u>	<u>1</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	
	<u>13</u>	<u>56</u>	<u>02</u>		<u>B</u>	<u>I</u>	<u>F</u>	<u>S</u>	<u>2</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	L5
	<u>14</u>	<u>99</u>	<u>---</u>		<u>W</u>	<u>R</u>	<u>A</u>	<u>I</u>	<u>1</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	
	<u>15</u>	<u>99</u>	<u>---</u>		<u>W</u>	<u>L</u>	<u>A</u>	<u>I</u>	<u>1</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	
	<u>16</u>	<u>56</u>	<u>02</u>		<u>P</u>	<u>R</u>	<u>F</u>	<u>S</u>	<u>2</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	
	<u>17</u>	<u>56</u>	<u>02</u>		<u>T</u>	<u>R</u>	<u>F</u>	<u>S</u>	<u>3</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	
	<u>18</u>	<u>51</u>	<u>---</u>		<u>T</u>	<u>R</u>	<u>A</u>	<u>I</u>	<u>1</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	

NOTE: USE ADDITIONAL PAGES IF NECESSARY.

## CODES FOR AREAS OF POSSIBLE OCCUPANT CONTACT

## FRONT OF PASSENGER COMPARTMENT

- (10) SUNVISOR, FITTING(S) & OR TOP MOLDING
- (12) WINDSHIELD
- (05) INSTRUMENT PANEL (SPECIFIC AREA UNKNOWN)
- (54) UPPER INSTRUMENT PANEL (X)
- (55) MIDDLE INSTRUMENT PANEL (Y)
- (56) LOWER INSTRUMENT PANEL (Z)
- (81) ASH TRAY (INSTRUMENT PANEL)
- (02) GLOVE COMPARTMENT AREA
- (47) AIRBAG (ACRS) COMPARTMENT DOOR/COVER
- (57) BENEATH INSTRUMENT PANEL
- (53) PARCEL TRAY
- (48) KNEE RESTRAINT
- (86) VERTICAL CONSOLE
- (28) FOOT CONTROLS (INCL. PARKING BRAKE PEDAL)
- (09) STEERING ASSEMBLY (SPECIFIC AREA UNKNOWN)
- (65) STEERING WHEEL
- (66) STEERING WHEEL COLUMN
- (59) TRANSMISSION LEVER ON COLUMN
- (03) HARDWARE ITEM (SPECIFIC AREA UNKNOWN)
- (82) INSTRUMENT(S)
- (83) CONTROL KNOB(S) & LEVER(S) (FRONT)
- (84) PARKING BRAKE HANDLE IN FRONT
- (67) IGNITION KEY
- (06) MIRROR
- (04) HEATER OR AIR CONDITIONING DUCTS
- (01) AIR CONDITIONING OR VENTILATION OUTLET(S)
- (08) RADIO (BUILT IN)
- (58) ADD-ON TAPE DECK, RADIO, A/C
- (68) ROOF MOUNTED CONTROLS/CONSOLES

## REAR

- (88) SURFACE OF REAR INTERIOR
- (23) REAR WINDOW
- (39) REAR WINDOW HEADER
- (50) REAR SEAT CUSHION & BACK

## INTERIOR-GENERAL

- (11) TRANSMISSION SELECTION LEVER (LOCATION UNK.)
- (59) TRANSMISSION LEVER ON STEERING COLUMN
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (07) PARKING BRAKE HANDLE (LOCATION UNKNOWN)
- (84) PARKING BRAKE HANDLE IN FRONT
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (INCL. PARKING BRAKE PEDAL)
- (29) FRONT SEAT-BACK(S)
- (51) FRONT SEAT CUSHION
- (50) REAR SEAT CUSHION & BACK
- (49) ARMREST ON SEAT
- (89) UNDER SEAT BOTTOM
- (33) RESTRAINT SYSTEM HARDWARE
- (34) RESTRAINT SYSTEM WEBBING
- (87) AIR CUSHION SKIN (AIRBAG)
- (47) AIRBAG (ACRS) COMPARTMENT DOOR/COVER
- (46) AIRBAG GAS
- (48) KNEE RESTRAINT
- (30) HEAD RESTRAINT
- (42) CHILD SEAT RESTRAINTS
- (43) CHILD SEAT
- (31) INTERIOR LOOSE OBJECT
- (32) OTHER OCCUPANT(S)
- (52) INTERNAL FLYING GLASS (FROM ANY SOURCE)
- (41) UNKNOWN INTERIOR SURFACE

## SIDES

- (20) SURFACE OF SIDE INTERIOR
- (19) HARDWARE ON SIDE OR DOOR
- (13) ARMREST ON SIDE OR DOOR
- (24) COAT HOOK
- (22) WINDOW GLASS (SIDE)
- (21) WINDOW FRAMES (SIDE)
- (26) ROOF SIDE RAIL
- (14) A-PILLAR
- (15) B-PILLAR
- (16) C-PILLAR
- (17) D-PILLAR

## FLOOR

- (40) FLOOR
- (27) CONSOLE ON FLOOR OR BETWEEN SEATS
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (INCL. PARKING BRAKE PEDAL)
- (91) KICKPANEL

## ROOF

- (25) ROOF OR CONVERTIBLE TOP
- (10) SUNVISOR, FITTING(S) & OR TOP MOLDING
- (26) ROOF SIDE RAIL
- (24) COAT HOOK
- (18) DOME LIGHT
- (39) BACKLIGHT HEADER
- (68) ROOF MOUNTED CONTROLS/CONSOLE
- (69) ROLL BAR

## EXTERIOR SURFACE OF CASE VEHICLE

- (37) OUTSIDE SURFACE OF CASE VEHICLE (SPECIFIC AREA UNKNOWN)
- (35) HOOD OF CASE VEHICLE
- (60) EXTERIOR OF CASE VEHICLE (E.G. OUTSIDE MIRRORS, ANTENNA, TRIM)
- (62) EXTERIOR SIDE ROOF RAIL OF CASE VEHICLE
- (63) TRUNK LID OF CASE VEHICLE
- (64) TIRES OF CASE VEHICLE

## BEYOND CASE VEHICLE BOUNDARY

- (36) AREA EXTERIOR TO CAR (SPECIFIC AREA UNK.)
- (70) HOOD OF OTHER VEHICLE
- (71) OTHER VEHICLE EXTERIOR HARDWARE (E.G. OUTSIDE MIRRORS, ANTENNA, TRIM)
- (73) EXTERIOR SIDE ROOF RAIL OF OTHER VEHICLE
- (74) HEADLIGHT OR FRONT GRILL OF OTHER VEH.
- (75) TRUNK OF OTHER VEHICLE
- (76) OUTSIDE SURFACE OF OTHER VEHICLE
- (77) TIRES OF OTHER VEHICLE
- (78) GROUND
- (79) WATER
- (80) EXTERIOR OBJECT (NOT VEHICLE, GROUND, OR WATER. PLEASE DESCRIBE.)

## PENETRATING OBJECTS

- (61) OTHER VEHICLE
- (72) OBJECTS (DESCRIBE)

## MISCELLANEOUS

- (00) NO CONTACT (INVALID FIELD FORM CODE)
- (38) OTHER (E.G. FIRE. DESCRIBE) **RF OCCUPANTS**
- (90) SPARE TIRE **OWN LEFT LG**
- (96) INDUCED
- (97) EJECTED, UNKNOWN CONTACT
- (98) IMPACT FORCE, "WHIPLASH", HYPEREXTENSION/COMPRESSION
- (99) UNKNOWN AREA OF CONTACT

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Year	Number of cases	Number of deaths
1990	100	10
1991	110	11
1992	120	12
1993	130	13
1994	140	14
1995	150	15
1996	160	16
1997	170	17
1998	180	18
1999	190	19
2000	200	20
2001	210	21
2002	220	22
2003	230	23
2004	240	24
2005	250	25
2006	260	26
2007	270	27
2008	280	28
2009	290	29
2010	300	30
2011	310	31
2012	320	32
2013	330	33
2014	340	34
2015	350	35
2016	360	36
2017	370	37
2018	380	38
2019	390	39
2020	400	40

1000





PN 20700 #2



**PN 20700 #3**



PN 20700 #4





PN 20700 #5



**PN 20700 #6**



**PN 20700 #7**



PN 20700 #8



PN 20700 #9



PN 20700 #10



PN 20700 #11



PN 20700 #12





PN 20700 #13



PN 20700 #14



**PN 20700 #15**  
**Best Available**



PN 20700 #16  
Best Available



PN 20700 #17



PN 20700 #18



PN 20700 #19  
Best Available



PN 20700 #20  
Best Available





PN 20700 #21  
Best Available



**PN 20700 #22**  
**Best Available**



PN 20700 #23



PN 20700 #24



PN 20700 #25



PN 20700 #26



PN 20700 #27



PN 20700 #28





PN 20700 #29



PN 20700 #30



PN 20700 #31



PN 20700 #32



PN 20700 #33



PN 20700 #34



PN 20700 #35



**PN 20700 #36**





PN 20700 #37



PN 20700 #38



**PN 20700 #39**  
**Best Available**



**PN 20700 #40**  
**Best Available**



PN 20700 #41



PN 20700 #42



**PN 20700 #43**  
**Best Available**



**PN 20700 #44**  
**Best Available**





**PN 20700 #45**  
**Best Available**



PN 20700 #46  
Best Available



PN 20700 #47  
Best Available



PN 20700 #48  
Best Available



PN 20700 #49  
Best Available



**PN 20700 #50**  
**Best Available**



**PN 20700 #51**  
**Best Available**



PN 20700 #52





**PN 20700 #53**



PN 20700 #54



**PN 20700 #55**  
**Best Available**



PN 20700 #56  
Best Available



PN 20700 #57



PN 20700 #58



PN 20700 #59



PN 20700 #60





PN 20700 #61



PN 20700 #62



PN 20700 #63



PN 20700 #64



**PN 20700 #65**  
**Best Available**



PN 20700 #66  
Best Available



**PN 20700 #67**  
**Best Available**



PN 20700 #68  
Best Available





PN 20700 #69  
Best Available



**PN 20700 #70**  
**Best Available**



**PN 20700 #71**  
**Best Available**



**PN 20700 #72**  
**Best Available**



**PN 20700 #73**



**PN 20700 #74**  
**Best Available**



PN 20700 #75



**PN 20700 #76**





PN 20700 #77



PN 20700 #78



PN 20700 #79



PN 20700 #80



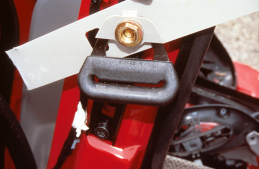
**PN 20700 #81**



**FN 20700 #82**  
**Best Available**



PN 20700 #83



PN 20700 #84



CASE NO.: 26748

CASE VEHICLE: 1999 Chevrolet

TYPE: Barrier-I x 2, 3-door JPF

OCCUPANT: Driver - 18 year-old male

STATURE: 5'00-in (5 ft, 0 in) 150-lb (70 kg) 161-lb (73 kg)

RESTRAINTS: 3-point belt worn - precrumpled head; frontal impact airbag deployed, side impact airbag did not deploy

SEVERITY: minor - 1      - 15% - 1



CASE NO: 99F00

CASE VERNO: 1000 Chapter

TYPE: Rammed + 2, 4-door APV

ACCIDENT: Rollover crash - 11-year-old female

STATURE: 165 cm (5'6, 3 in) MASS: 73 kg (161 lb)

REMARKS: 3-point belt and wheels, pretensioned fixed.

frontal impact during deployment

side impact during 2nd roll decay

SEVERITY: MAIS - 8      I - 60 - 80

